



上海贝岭
SHANGHAI BELLING



电源管理产品手册 2021

POWER MANAGEMENT PRODUCT MANUAL

上海贝岭股份有限公司

Introduction of Shanghai Belling 上海贝岭简介



上海贝岭股份有限公司（以下简称“上海贝岭”或“公司”）成立于1988年，是国内集成电路行业的第一家中外合资企业。上海贝岭是国家改革开放初期成功吸引外资和引进国外先进技术的标志性企业，为我国集成电路产业的发展树立了楷模，带动了我国微电子产业的振兴和程控固话通信产业的迅速发展，获得了众多的殊荣，长期拥有行业历史地位和示范作用，邓小平、江泽民、胡锦涛等党和国家领导人分别亲临上海贝岭视察。公司于1998年改制后在上海证券交易所主板上市，成为中国集成电路行业第一家上市公司。公司于2008年起转型为集成电路设计企业，2015年成为世界财富500强中国电子信息产业集团有限公司（CEC）旗下集成电路业务平台华大半导体的核心子企业，华大半导体是公司控股股东，也是国内前十的IC设计企业，公司实际控制人为中国电子。

上海贝岭地处上海市漕河泾新兴技术开发区，拥有国家级企业技术中心。公司专注于集成电路芯片设计和产品应用开发，是国内集成电路产品主要供应商之一。公司重点发展消费类和工控类两大产品板块业务，目前集成电路产品业务细分为电源管理、智能计量及SoC、非挥发存储器、功率器件和高速高精度ADC等5大产品领域，主要目标市场为电表、手机、液晶电视及平板显示、机顶盒等各类工业及消费电子产品。上海贝岭依靠自身以及华大半导体的集群优势，与国内晶圆制造、封装测试企业建立了长期、稳定的上下游合作关系，良好的产业链资源为公司快速响应市场需求提供了有力保障。除上海总部外，公司还设有深圳、北京销售办事处，为客户提供方便快捷的服务。公司拥有强大的FAE团队支持能力，能帮助客户快速完成产品设计导入、创造更多价值。

公司成立之初即引进欧洲先进的技术和质量管理体系，以可靠的产品质量树立长久的品牌形象。公司坚守绿色环保的发展观念，“净化排放，关爱环保”是公司的环境方针，不使用有害物质，生产绿色产品，不污染环境是公司产品的环保理念。公司自2004年起通过BVQI ISO14001第三方认证，一直坚持促进经济可持续发展，预防污染，并将此理念向上级供应链传递。2010年开始，公司主动升级产品环保标准，公司产品全部满足ROHS、无卤、REACH等环保标准。

公司将围绕“服务国家战略，实现自主可控，成为掌握核心技术的模拟IC主流供应商”的发展目标，打造华大半导体旗下功率器件和模拟电路业务平台，并行发展工控市场及海量市场业务，朝着成为国内一流的模拟集成电路和功率器件设计公司的目标不断努力。

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LDO选型指南

超高PSRR \geq 90dB@1KHz IOUT=10mA

高PSRR \geq 70dB@1KHz IOUT=10mA

低功耗 IQ<10 μ A 超低功耗 IQ<1 μ A

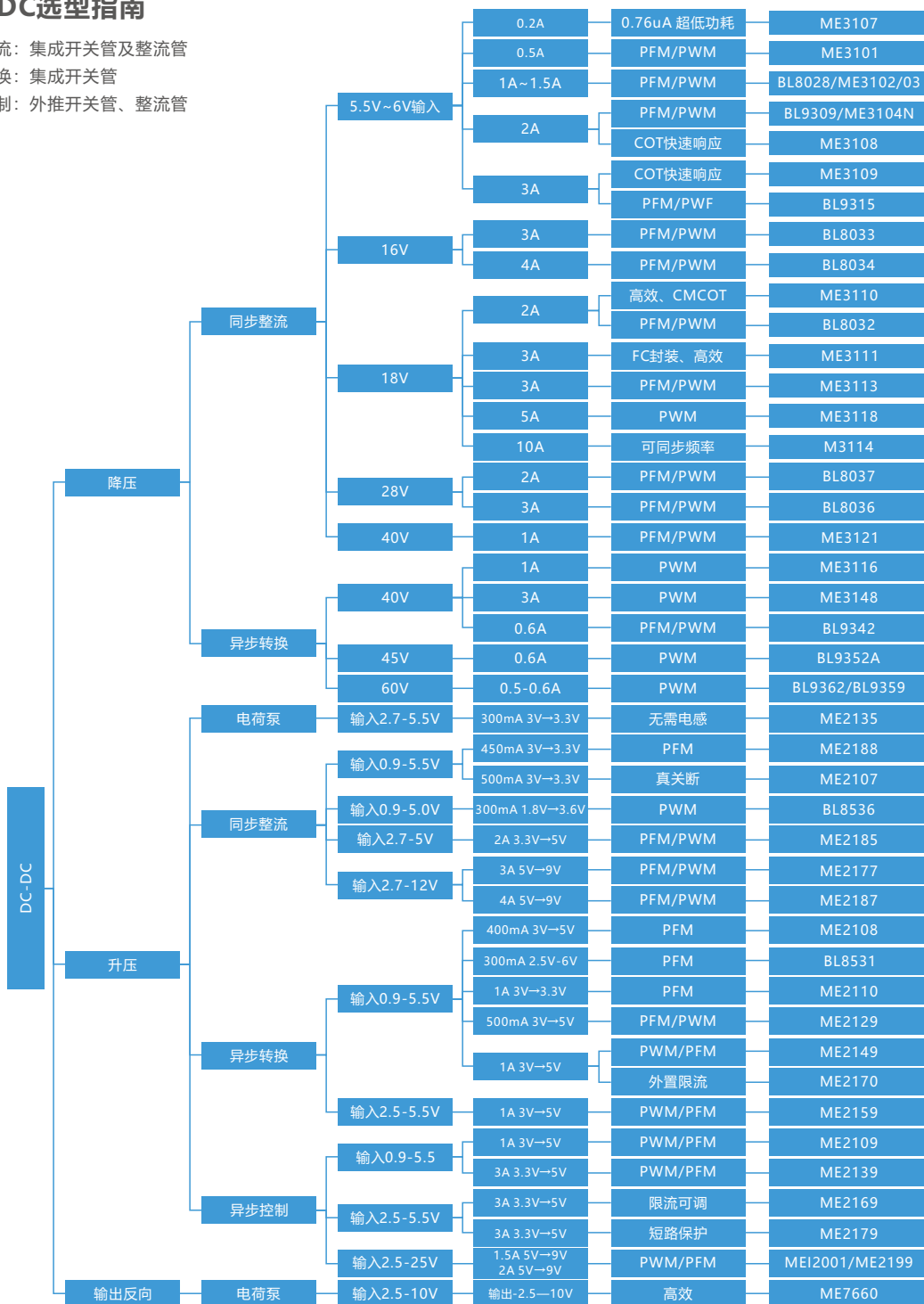


DC-DC选型指南

同步整流：集成开关管及整流管

异步转换：集成开关管

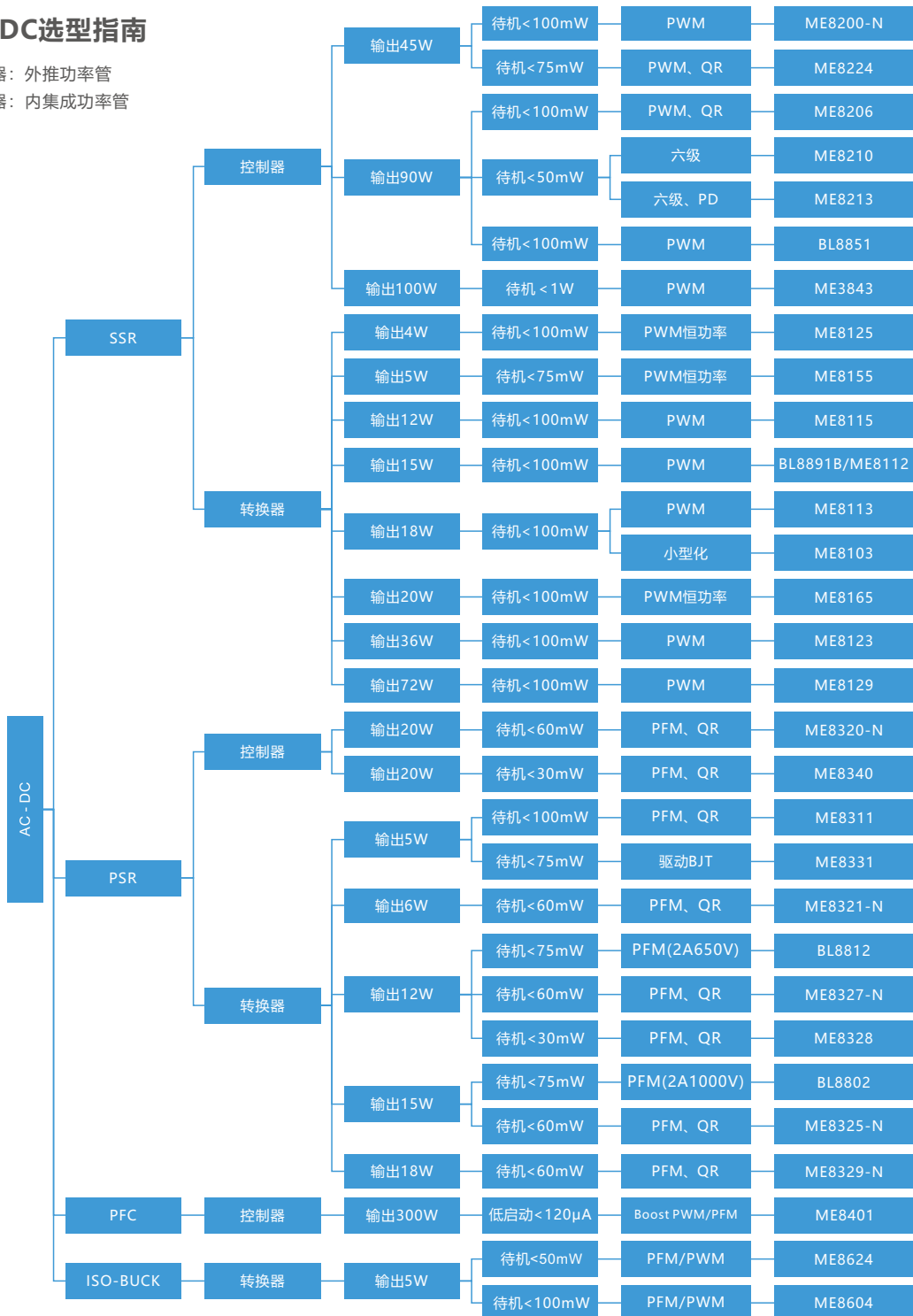
异步控制：外推开关管、整流管



AC-DC选型指南

控制器：外推功率管

转换器：内集成功率管



锂电选型指南

同步降压：集成开关管及整流管

异步降压：集成开关管



功率器件列表

功率器件	HV MOS (平面)	120V~300V Serial	BL36N12L/BL25N15L/BL25N15BL/BS108/BL9N20L/BL9N20/ BL15N20/BL18N20L/BL18N20/BL30N20/BL30N20B/BL70N20B/ BL80N20L/BL80N20	
			BL9N25/BL13N25L/BL13N25/BL15N25/BL18N25/BL28N25/ BL33N25B/BL33N25/BL40N25B/BL40N25/BL60N25B/BL60N25/ BL90N25B/BL90N25	
			BL13N30/BL30N30/BL40N30L/BL40N30/BL50N30/BL59N30	
			400V Serial	BL6N40L/BL6N40/BL10N40/BL11N40/BL19N40/BL25N40/BL35N40
			500V Serial	BL2N50/BL5N50A/BL5N50/BL8N50/BL8N50C/BL9N50/BL12N50/ BL13N50/BL15N50/BL20N50/BL23N50/BL25N50/BL30N50
			600V~700V Serial	BL2N60/BL4N60A/BL4N60/BL7N60A/BL8N60/BL10N60A/BL10N60/ BL12N60A/BL12N60/BL20N60/BL25N60/BL30N60
				BL2N65/BL4N65A/BL4N65/BL7N65A/BL7N65B/BL8N65/BL10N65A/ BL10N65/BL12N65A/BL12N65/BL20N65/BL25N65/BL30N65
				BL2N70/BL4N70A/BL4N70/BL6N70A/BL7N70A/BL7N70/BL10N70A/ BL10N70/BL12N70A/BL12N70
			800V~900V Serial	BL4N80A/BL4N80/BL4N80E/BL10N80
				BL3N90/BL3N90E/BL4N90/BL9N90
				BL3N100/BL3N100E/BL8N100
			1000V~1350V Serial	BL2N100/BL3N100/BL3N100E/ BL8N100/BL3N105
			BL3N120/BL4N120/BL6N120	
			BL5N135	
		1500V Serial	BL2N150/BL3N150/BL4N150	
	SJ MOS (超结)	600V Serial	BLS60R520/BLS60R360/BLS60R380F/BLS60R150/BLS60R150F/ BLS60R036/BLS60R600EF/BLS60R560EF/BLS60R520EP/ BLS60R160/BSL60R390F	
		650V Serial	BLS65R620F/BLS65R560/BLS65R380/ BLS65R165/BLS65R041F	
		700V~800V Serial	BLS70R600/BLS70R420/BLS70R180/BSL80R760/BSL80R990/ BLS80R1K0E	
		60V-N Serial	BLM04N06/BLM07N06/BLM08N06/BLM12N06L/BLM12N06/ BLM15N06L/BLM15N06/BLM30N06L	
		68V-N Serial	BLM08N68/BLM09N68	
Trench	80V-N Serial	BLM04N08/BLM06N08/BLM12N08/BLM14N08		
	100V-N Serial	BLM06N10/BLM08N10/BLM16N10/BLM22N10/BLM30N10L/ BLM30N10/BLM35N10L/BLM35N10/BLM90N10L		
	30V-P Serial	BLM60P03/BLM50P03/BLM20P03/BLM12P03/BLM10P03		
	40V-P Serial	BLP40P05/BLM40P07S/BLM30P04		
	100V-P Serial	BLM80P10		
Double	60V-85V Serial	BLP25N06L/BLP065N08G/BLP05N08G		
	100V Serial	BLP150N10/BLP10N10L/BLP10N10/BLP08N10L/BLP08N10/ BLP12N10/BLP12N10L		
IGBT	400V	BLG3040		
	1200V	BLG40T120FDH/BLG40T120FUH		

1.LDO Linear Regulator (低压差线性稳压器)

BL系列

Part No.	VIN	IOUT(Max)	VOUT	Accu.	IQ	PSRR	Vdrop	Features	Package	注-页码
BL8078	3.0~40V	150mA	1.2~5.0V	±2%	2.5µA	-	0.4V@100mA	Low Power Consumption, Low Dropout Voltage	SOT23-5 SOT89-3	推荐品-P26
◊BL8555	1.8~8.0V	150mA	1.2~5.0V	±2%	25µA	65dB@1KHz	0.2V@100mA	Low Noise, High PSRR	SOT23-5	
◊BL8064	1.5~8.0V	200mA	1.1~5.5V	±2%	1µA	-	0.21V@100mA	Low Power Consumption, Low Dropout Voltage	SOT23-3 SOT89-3	推荐品-P27
◊BL8061	Max. 16V	250mA	1.1~5.0V	±2%	2µA	-	0.21V@100mA	Low Power Consumption, Low Dropout Voltage	SOT23-3 SOT23-5 SOT89-3	
◊BL8062	Max. 16V	250mA	1.2~5.0V	±2%	3µA	-	0.211V@100mA	Low Power Consumption, Low Dropout Voltage	SOT23-3 SOT89-3	推荐品-P28
BL8503	Max. 8.0V	250mA	1.2~6.0V	±2%/±1%	3µA	-	170mV@100mA	Low Dropout Voltage, Low Iq	SOT89-3 SOT23-3 TO92	
BL8077	Max. 5.5V	300mA	1.2,1.8,2.5,3.0,3.3V	±2%	0.8µA	-	0.46V@300mA	Low Power Consumption, Low Dropout Voltage	DFN1x1-4 SOT23-5	推荐品-P29
BL8063	Max. 6.0V	300mA	2.0~6.0V	±2%	35µA	74dB@100Hz	0.3V@300mA	Low Noise, High PSRR	DFN1x1-4 SC70-5 SOT23-5	
BL8563	Max. 6.0V	300mA	1.0~4.5V	±2%	35µA	73dB@100Hz	0.3V@300mA	Low Noise, High PSRR, Output Discharge	DFN1x1-4 SOT23-5 SC70-5 SOT23-3	
BL8067	1.5~6.0V	300mA	1.0~4.5V	±2%	50uA	68dB@1KHz	0.21V@300mA	Low Noise, High PSRR, Output Discharge	SOT23-5 SC70-5 DFN1x1-4	
BL9193	2.0~6.0V	300mA	1.2~5.0V, ADJ	±2%/±1%	90µA	80dB@217Hz 78dB@1KHz	0.21V@300mA	RF LDO, Ultra Low Noise, High PSRR, Output Discharge	SOT23-5 SC70-5	
BL9195	2.0~6.0V	300mA	1.2~5.0V	±2%/±1%	90µA	78dB@217Hz	0.21V@300mA	Ultra Fast, Ultra Low Noise, High PSRR, Output Discharge	SOT23-3 SOT89-3 SOT223-3	
BL9198	2.0~6.0V	300mA	1.2~5.0V	±2%/±1%	90µA	78dB@217Hz	0.21V@300mA	RF LDO, Ultra Low Noise, High PSRR, Output Discharge	SOT23-5 SC70-5	
BL9161	2.2~5.5V	300mA	1.5~3.3V	±2%	VEN>1.2V, IOUT=0mA	78dB@217Hz	0.23V@300mA	Low Noise, High PSRR, Output Discharge	DFN1X1-4 SC70-5 SOT23-3 SOT23-5	
BL9162	1.8~5.5V	300mA	1.0~4.0V	±2%	VEN>1.2V, IOUT=0mA	87dB@217Hz	0.14V@300mA (VOUT=2.8V)	Low Noise, High PSRR, Fast Response, Output Discharge	DFN1X1-4 SOT23-5 SC70-5	推荐品-P30
BL9165	1.8~5.5V	500mA	1.0~4.0V	±2%	VEN>1.2V, IOUT=0mA	87dB@217Hz	0.24V@500mA (VOUT=2.8V)	Low Noise, High PSRR, Fast Response, Output Discharge	DFN1X1-4 SOT23-5 SC70-5	
◊BL8079	0.8~6.0V	300mA	ADJ	±2%	40µA	60dB@1KHz	0.18V@300mA	Low Noise, High PSRR, Output Discharge	SOT23-5 SC70-5	
BL9180	2.0~6.0V	300mA x2	1.2~5.0V	±2%/±1%	VEN>1.2V, IOUT=0mA	70dB@1KHz	0.22V@300mA	Dual Channels LDO, Output Discharge	SOT23-6 ESOP8	
BL8566	Max. 6.0V	300mA x2	1.0~4.5V	±2%/±1%	35µA x2	70dB@10KHz Output Discharge	0.3V@300mA	Dual Channels LDO, Output Discharge	SOT23-6	
◊BL8075	3.0~16V	500mA	1.2~5.0V	±2%	10µA	-	0.2V@100mA	Low Power Consumption, Low Dropout Voltage	SOT23-5 SOT89-3	推荐品-P31
BL8558	Max. 8.0V	500mA	1.2~4.5V	±2%/±1%	75µA	66dB@100Hz	0.7V@500mA	Low Noise, High PSRR, Output Discharge	SOT89-3 SOT23-5	
BL8565	Max. 6.0V	500mA	1.5~4.5V	±2%	35µA	73dB@100Hz	0.5V@500mA	Low Noise, High PSRR, Output Discharge	SOT89-3	
BL8568	Max. 6.0V	500mA	1.2~4.5V	±2%	35µA	72dB@1KHz	0.5V@500mA	Low Noise, High PSRR, Output Discharge	SC70-5 SOT23-5	
BL8569	Max. 6.0V	500mA x2	1.2~4.5V	±2%	35µAx2	72dB@1KHz	0.5V@500mA	Dual Channels LDO, Output Discharge	SOT23-6	
BL8067A	1.5~6.0V	500mA	0.8~5.0V	±2%	50µA	70dB@100Hz	0.5V@500mA	Low Noise, High PSRR, Output Discharge	SOT23-5 SC70-5 DFN1x1-4	
◊BL8079A	2.5~6.0V	600mA	ADJ	±2%	40µA	60dB@1KHz	0.18V@300mA	Low Noise, High PSRR, Output Discharge	SOT23-5 SC70-5	推荐品-P32

Part No.	VIN	IOUT(Max)	VOUT	Accu.	IQ	PSRR	Vdrop	Features	Package	注-页码
BL8074	Max. 6.0V	800mA	1.2~5.0V	±2%	100µA	65dB@1KHz	0.2V@800mA	Low Noise, High PSRR, Output Discharge	SOT89-3	
BL9110	2.5~6.0V		1.0~5.0V	±2%/±1%	IOUT=0mA	70dB@100Hz	0.35V@1A (VOUT=3.3V)	Low Noise, High PSRR, Output Discharge	SOT223-3 TO252-3	推荐品-P33
BL8073	Max. 6.0V	1A	1.2~5.0V	±2%	100µA	65dB@1KHz	0.2V@800mA	Low Noise, High PSRR, Output Discharge	SOT89-3 SOT23-5	
BL8071	Max. 6.0V	1.5A	1.2~5.0V	±2%	100µA	70dB@100Hz	0.3V@1A	Low Noise, High PSRR, Output Discharge	SOT223	
◇BL8072	Max. 18V	2A	1.2~5.0V	±2%	3µA	-	0.85V@1.5A	Low Noise, High PSRR, Output Discharge	SOT223 TO252	

*Ordered by IOUT ◇可提供工业级产品

Part No.	VIN	IOUT(Max)	VOUT	Accu.	IQ	Vdrop	Features	Package
BL1117	Max. 15V	1A	1.2,1.8,2.5,3.3,5V, ADJ	±2%	2mA	1.3V@1A	Bipolar, Low Dropout Voltage	SOT223 TO252
BL1117C	Max. 15V	1A	1.2V	±2%	2mA	1.3V@1A	Bipolar, Low Dropout Voltage	SOT223
BL1118	Max. 12V	1A x 2	1.2,1.8,2.5,3.3,5V, ADJ	±2%	2mA x 2	1.3V@1A	Dual Channels Bipolar, Low Dropout Voltage	ESOP8
BL1085	Max. 12V	3A	1.8,2.5,3.3,5V, ADJ	±2%	4mA	1.4V@3A	Bipolar, Low Dropout Voltage	TO252 TO263
BL1084	Max. 12V	5A	1.8,2.5,3.3,5V, ADJ	±2%	5mA	1.4V@5A	Bipolar, Low Dropout Voltage	TO252 TO263

Part No.	VIN	IOUT(Max)	VOUT	Accu.	IQ	Vdrop	Features	Package	注-页码
BL78L05D	Max. 35V	100mA	5.0V	±2%	2mA	1.7V@40mA	Three-terminal Positive Voltage Regulator	SOT89-3 TO92	推荐品-P34
BL78L05	Max. 30V	100mA	5.0V	±4%	Max. 5.5mA	2.2V@40mA	Three-terminal Positive Voltage Regulator	SOT89-3 TO92	
BL317B	Max. 40V	1.5A	ADJ	±4%	46µA		High Current Adjustable Voltage Regulator	TO220 TO252 TO263	

AEC-Q100(LDO)

Part No	VIN(MAX.)	IOUT	VOUT	Accu.	Dropout Voltage	Features	Package
BL8078Q-AEC2	40V	30mA	3.3, 5.0V	±2%(±1% customized)	0.24V@50mA	Low Consumption Linear Regulator	SOP8

ME系列

Part No.	VIN (Max)	IOUT (Max)	VOUT	Accu.	IQ	PSRR(@1KHz)	Vdrop@100mA	Key Features	Package	注-页码
ME6206A	6.5V	300mA	1.5-5.0V	±1%	8µA	50dB	150mV	SCP/OCP	SOT23-3 SOT89-3 SOT23 TO92	
ME6206B	6.5V	250mA	1.6-5.0V	±2%	7µA	65dB	200mV	SCP/OCP	SOT23	
※ME6301	6.5V	250mA	1.8-5.0V	±1%	18µA	98dB	250mV	Low Noise	FBP1x1-4L	2021Q1-P52
ME6213	6.5V	300mA	1.5-5.0V	±2%	8µA	50dB	110mV	EN/SCP/OCP	SOT23-5 DFN2x2-6L	
ME6216	6.5V	300mA	1.0-5.0V	±1%	8µA	50dB	105mV	SCP/OCP	SOT23-3 SOT89-3 SOT23 TO92 DFN2x2-3L	
ME6219	6.5V	300mA	1.2-5.0V	±2%	65µA	62dB	180mV	EN/Low Noise	SOT23-5 SOT23-3 SOT89-3 SOT89-5	
ME6226	6.5V	300mA	1.0-3.6V	±1%	0.6µA	40dB	110mV	Low IQ/High Speed	SOT23-5	新品-P53
◇ME6230	6.5V	400mA	1.5-5.0V	±1%	1.8µA	65dB	110mV	EN/THSD/ Low IQ	SOT23-3 SOT23-5 SOT89-3 FBP1x1-4L	推荐品-P54

Part No.	VIN (Max)	IOUT (Max)	VOUT	Accu.	IQ	PSRR(@1KHz)	Vdrop@100mA	Key Features	Package	注-页码
ME6220	6.5V	450mA	0.8-5.0V	±1%	80μA	70dB	100mV	EN/SCP/High Speed	FBP1x1-4L	新品
ME6212	6.5V	350mA	1.2-5.0V	±2%	50μA	70dB	120mV	EN/SCP	SOT23-5	
◇ME6211	6.5V	500mA	1.2-5.0V	±1%	50μA	70dB	120mV	EN/SCP	SOT23-3/SOT23-5/SOT353/SOT343R/SOT89-3/ FBP1x1-4L / DFN2x2-6L	
ME6251	6.5V	500mA	1.2-5.0V	±1%	40μA	60dB	120mV	Reverse Current Protection	SOT23-5	
ME6218	6.5V	250mA	0.4/0.6/0.75/0.8V	±1%	45μA	60dB	120mV	EN/SCP	SOT23-5/ FBP1x1-4L	
ME6207	6.5V	800mA	1.8-5.0V	±1%	80μA	65dB	35mV	EN/SCP	SOT89-5/SOT23-5/SOT89-3	
◇ME6217	6.5V	800mA	1.5-5.6V	±1%	100μA	65dB	35mV	EN/OCP/OTP	SOT89-5/SOT23-5/SOT89-3	
ME6401	6.5V	300mA	1.2-5.0V	±2%	130μA	70dB	120mV	Dual Type	SOT23-6	
ME6208	18V	150mA	3.0-5.0V	±1%/±2%	3μA	50dB	580mV	LOW IQ	TO92/SOT89-3/SOT23-3	
ME6209	18V	250mA	3.0-5.0V	±1%/±2%	3μA	50dB	200mV	LOW IQ	TO92/SOT89-3/SOT23-3	
ME6249	18V	250mA	3.0-5.0V	±1%	3μA	50dB	200mV	LOW IQ	SOT89-3/SOT23-3	
ME6214	18V	300mA	1.5-5.0V	±2%	0.7μA	40dB	160mV	EN/SCP/OCP	SOT89-3/SOT23-3/SOT23-5/DFN2x2-6L	
ME6215	18V	300mA	1.5-5.0V	±1%/±2%	5.5μA	50dB	160mV	EN/SCP/OCP	SOT23-5	
◇ME6119	18V	400mA	1.2-5.0V	±2%	60μA	60dB	105mV	EN/SCP/OCP/OTP	SOT23-3/SOT23-5/SOT89-3	
◇ME6221	18V	400mA	ADJ=1.25V	±2%	60μA	60dB	105mV	EN/SCP/OCP/OTP	SOT23-5	
ME6222	18V	400mA	ADJ=0.8V	±2%	60μA	60dB	105mV	EN/SCP/OCP/OTP	SOT23-5	
ME6210	18V	500mA	1.5-5.0V	±2%	1.5μA	50dB	100mV	LOW IQ/SCP	SOT89-3/ SOT23-3	
ME6231	18V	500mA	1.5-5.0V	±1%	1.8μA	65dB	125mV	OTP/OCP/EN/LOW IQ	SOT89-3/ SOT23-3/SOT23-5	推荐品-P55
ME6118	18V	1A	1.2-5.0V	±2%	50μA	70dB	80mV	OTP/OCP	SOT23-3/SOT223/TO252/ SOT89-3	
ME6228	30V	150mA	2.1-12V	±1%/±2%	0.8μA	40dB	700mV	LOW IQ/SCP	SOT23-3/SOT89-3	
ME6239	30V	250mA	2.1-12V	±1%	1.8μA	50dB	400mV	LOW IQ/SCP	SOT23-3 / SOT89-3	
ME6203	40V	100mA	3.0-5.0V	±1%/±2%	3μA	50dB	2.2V	LOW IQ/SCP	TO92/SOT89-3/SOT23-3	
※ME6233	40V	100mA	3.0-5.0V	±1%	4μA	60dB	1.5V	OCP/OTP/EN/LOW IQ	SOT23-5	新品-P56
※ME6261	60V	100mA	1.2-12V	±1%	3μA	60dB	1.5V	OCP/OTP/EN/LOW IQ	SOT23-3/SOT23-5/SOT89-3	新品-P57
ME1117	20V	1A	1.25-15V	±2%	3mA	60dB	1.05V	OCP/OTP	SOT223/TO252	
MET1117	20V	800mA	1.25-15V	±2%	5mA	60dB	1.08V	OCP/OTP	SOT223/TO252	
ME78L05	35V	100mA	5.0V	±5%	3.5mA	80dB	2.0V	SCP/OCP/OTP	SOT89-3	
ME78M05	35V	500mA	5.0V	±5%	3.5mA	80dB	2.0V	SCP/OCP/OTP	TO252	
ME7805	35V	1.2A	5.0V	±5%	3.5mA	80dB	2.0V	SCP/OCP/OTP	TO220	
MEB78L05	40V	100mA	5.0V	±1%	3.0mA	60dB	2.0V	SCP/OCP/OTP	SOT89-3	

注: EN: Enable Control SCP: Short Circuit Protection OCP: Over Current Protection
 OTP: Over Temperature Protection LOW IQ: Low Quiescent Current DCS: Discharge Shunt
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2. DC/DC Step-down Converter (降压型DC/DC转换器)

BL系列

Part No.	VIN	IOUT	VOUT	Vfb/精度	IQ	FOSC	MODE	Syn	Features	Package	注-页码
BL8026	2.6~7.0V	1A	ADJ	0.6V/ ±2%	50μA	1.5MHz	PWM/PFM	√	Built-in MOSFET Synchronous	SOT23-5 DFN2x2-6	
◊BL8028	2.6~6.0V	1.5A	ADJ	0.6V/ ±2%	80μA	2MHz	PWM/PFM	√	Built-in MOSFET Synchronous	SOT23-5 DFN2x2-6	推荐品-P35
BL8029	2.6~6.5V	2A	ADJ	0.6V/ ±2%	50μA	1.5MHz	PWM/PFM	√	Built-in MOSFET Synchronous	SOT563	
BL9309	2.5~5.5V	2A	ADJ	0.6V/ ±2.5%	50μA	1.3MHz	PWM/PFM	√	Built-in MOSFET Synchronous	SOT23-5 SOT23-6	
BL9315	2.6~5.5V	3A	ADJ	0.6V/ ±2%	50μA	1.4MHz	PWM/PFM	√	Built-in MOSFET Synchronous	ESOP8	
BL8032S	3.5~16V	2A	ADJ	0.6V/ ±2%	0.5mA	500KHz	PWM/PFM	√	Built-in MOSFET Synchronous	SOT23-6	
BL8033	4.2~16V	3A	ADJ	0.8V/ ±2%	0.5mA	500KHz	PWM/PFM	√	Built-in MOSFET Synchronous	SOT23-6	推荐品-P36
BL8034	4.2~16V	4A	ADJ	0.923V/ ±2%	0.5mA	500KHz	PWM/PFM	√	Built-in MOSFET Synchronous	ESOP8	
BL8032	4.2~18V	2A	ADJ	0.8V/ ±2%	0.5mA	500KHz	PWM/PFM	√	Built-in MOSFET Synchronous	SOT23-6	推荐品-P37
BL8032H	4.2~18V	2A	ADJ	0.8V/ ±2%	0.5mA	1MHz	PWM/PFM	√	Built-in MOSFET Synchronous	SOT23-6	
BL8035	4.2~18V	2A	ADJ	0.8V/ ±2%	0.5mA	500KHz	PWM	√	Built-in MOSFET Synchronous	SOT23-6	
◊BL8037	4.2~30V	2A	ADJ	0.8V/ ±2%	0.3mA	500KHz	PWM/PFM	√	Built-in MOSFET Synchronous	ESOP8	
◊BL8036	4.2~30V	3A	ADJ	0.8V/ ±2%	0.3mA	500KHz	PWM/PFM	√	Built-in MOSFET Synchronous	ESOP8	
BL9342	4.5~40V	600mA	ADJ	0.794V/ ±2%	0.2mA	1.8MHz	PWM/PFM		Built-in MOSFET	SOT23-6	
BL9352A	4.5~45V	600mA	ADJ	0.795V/ ±2%	0.69mA	1.6MHz	PWM		Built-in MOSFET	SOT23-6	
BL9359	4.5~60V	500mA	ADJ	0.812V/ ±2.5%	0.73mA	480KHz	PWM		Built-in MOSFET	SOT23-6	
BL9362	4.5~60V	600mA	ADJ	0.795V/ ±2%	0.65mA	2MHz	PWM		Built-in MOSFET	SOT23-6	新品

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ME系列

Part No.	VIN	IOUT	VOUT	VFB	IQ	FOSC	MODE	Syn	Features	Package	注-页码
ME3107	2.7-5.0V	200mA	1.0-4.0V	VOUT/ ±2.5%	0.76μA	-	PFM	√	Low IQ 0.76μA	SOT23-5	
ME3101	0.9-6.5V	500mA	1.0-3.3V	VOUT/ ±2%	60μA	1.2MHz	PFM/PWM	√	EN/OCP/Softstart/UVLO	SOT23-5	
ME3102	2.5-5.5V	1A	1.2-5.0V	0.6V/ ±2%	40μA	1.5M/ 1.7MHz	PFM/PWM	√	EN/SCP/OCP/Softstart/OTP	SOT23-5 DFN2x2-6	
ME3103	2.5-5.5V	1A	1.2-5.0V	0.6V/ ±2%	40μA	1.5MHz	PFM/PWM	√	EN/SCP/OCP/Softstart/OTP	SOT23-5 DFN2x2-6	
ME3104	2.5-5.0V	2A	0.6-5.0V	0.6V/ ±2%	40μA	1.5MHz	PFM/PWM	√	EN/SCP/OCP/Softstart/OTP	SOT23-5 DFN2x2-6	
◊ME3108	2.7-5.5V	2A	0.8-3.6V	VOUT/ ±2%	15μA	1.2MHz	PFM/PWM	√	COT Control	SOT23-5 SOT23-6	推荐品-P58
ME3109	2.7-5.5V	3A	0.8-3.6V	VOUT/ ±2%	15μA	1.2MHz	PFM/ PWMOR/PWM	√	COT Control	DFN2x2-6	推荐品-P59
※ME3110	4.4-18V	2A	1.2-7.0V	0.6V/ ±2%	120μA	500KHz	PFM/PWM	√	CMCOT/SCP	SOT23-6	新品-P60
◊ME3111	4.8-18V	3A	1.2-7.0V	0.6V/ ±2%	130μA	500KHz	PFM/PWM	√	CMCOT/SCP	TSOT23-6	

Part No.	VIN	IOUT	VOUT	VFB	IQ	FOSC	MODE	Syn	Features	Package	注-页码
ME3118	4.5-18V	5A	1.2-5.0V	0.8V/ ±1.5%	1.6mA	500KHz	PWM	√	EN/SCP/OCP/Softstart/OTP	ESOP8 DFN3x3-8L	
※ME3113	4.5-18V	3A	0.6-5.0V	0.6V/ ±2%	135μA	500KHz	PFM/PWM	√	CMCOT/SCP	SOT23-6	2021Q1-P61
※ME3114	3.3-18V	10A	0.6-5.0V	0.6V/ ±2%	135μA	200KHz-2MHz	PFM/PWM	√	CMCOT/SCP	QFN14	
◊MEI3001	4.5-40V	600mA	1.2-5.0V	0.8V/ ±1.5%	1.3mA	550KHz	PWM		EN/SCP/OCP/UVLO/OTP	SOT23-6	
ME3116	4.75-40V	1A	1.2-5.0V	0.8V/ ±1.5%	1.3mA	550KHz	PWM		EN/SCP/OCP/UVLO/OTP	SOT23-6	
※ME3121	4.7-40V	1A	1.2-5.0V	0.6V/ ±2%	135μA	1MHz	PFM/PWM	√	CMCOT/SCP	SOT23-6	新品-P62
ME3148	8.0-36V	3A	1.25-33V	1.25V ±1.5%	2mA	160KHz	PWM		SCP/OCP/UVLO/OTP	SOP8	

注: EN: Enable Control OCP: Over Current Protection UVLO: Under Voltage Lock Out
SCP: Short Circuit Protection OTP: Over Temperature Protection
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3.DC/DC Step-up Converter and Controller (升压型DC/DC转换器和控制器)

BL系列

Part No.	VIN	IOUT	MODE	VOUT	Accu.	FOSC	Power MOS	Package
◊BL8531	0.8~5.5V	300mA	PFM	2.5~6.0V 100mV Step	±2%	450KHz	Internal MOSFET	SOT89-3 SOT23-3 SOT23-5
◊BL8531C	0.8~5.5V	-	PFM	2.5~6.0V 100mV Step	±2%	400KHz	External MOSFET	SOT23-5
BL8536	0.9~5.0V	300mA	Sync Boost PWM	1.8~3.6V	±2%	1MHz	Internal Sync Rectifier	SOT89-3 SOT23-3

ME系列

Part No.	VIN	IOUT	MODE	VOUT	Accu	FOSC	Power MOS	Package	注-页码
ME2135	2.7-5.5V	300mA 3V→3.3V	Charge Pump	2.7-5.0V	VOUT±3%	650KHz	Built-in NMOS&PMOS	SOT23-6	
ME2188	0.9-5.5V	450mA 3V→3.3V	PFM	1.8-5.0V	VOUT±2%	400KHz	Built-in NMOS&PMOS	SOT89/SOT23/ SOT23-5/TO92	
ME2107	0.9-5.5V	500mA 3V→3.3V	PFM	1.8-5.0V	VOUT±2%	320KHz	Built-in NMOS&PMOS	SOT23-5	同步真关断 推荐品-P63
ME2186	0.9-5.5V	500mA 3V→5V	PFM	1.8-6.0V	VOUT±2%	330KHz	Built-in NMOS&PMOS	SOT89-3	
ME2185	2.9-4.4V	2.5A 3.3V→5V	PFM/ PWM	<5.5V	1.25V±2%	1MHz	Built-in NMOS&PMOS	ESOP8	
ME2177	2.7-12V	2A 3.3V→9V	PFM	<12.6V	1.2V±2%	200KHz-2.2MHz	Built-in NMOS&NMOS	QFN2.5x2.0-11L	新品-P64
ME2187	2.7-12V	3A 3.3V→9V	PFM/PWM	<12.6V	1.2V±2%	200KHz-2.2MHz	Built-in NMOS&NMOS	DFN4.5x3.5-20L/ ESOP16	推荐品-P65
MEXX1C	0.9-6.0V	250mA 3V→3.3V	PFM	1.8-7.0V	VOUT±2.5%	100KHz	Built-in NMOS	SOT23-3 /To92/ SOT89-3	
ME2100	0.9-6.0V	300mA 3V→3.3V	PFM	2.0-7.0V	VOUT±2.5%	100KHz	Built-in NMOS	SOT23-3/SOT23-5/ SOT89-3	
ME2108	0.9-6.0V	400mA 3V→5V	PFM	2.0-5.0V	VOUT±2.5%	180KHz	Built-in NMOS	SOT23-5/SOT89-3/ SOT23-3/TO92	
ME2101	0.9-6.0V	350mA 3V→3.3V	PWM	2.0-5.0V	VOUT±2.5%	100KHz	Built-in NMOS	SOT23-3/SOT23-5/ SOT89-3	

Part No.	VIN	IOUT	MODE	VOUT	Accu	FOSC	Power MOS	Package	注-页码
ME2110	0.9-6.0V	1A 3V→3.3V	PFM	1.8-6.0V	VOUT±2%	150K/300KHz	Built-in NMOS	SOT89-3/SOT23-5/ SOT23-3	
ME2129	0.9-5.5V	500mA 3V→5V	PFM/PWM	<20V	1.25V±2%	300KHz	Built-in NMOS	SOT23-5	
ME2149	0.9-5.5V	1A 3V→5V	PFM/PWM	<20V	1.25V±2%	1MHz	Built-in NMOS	SOT23-5/SOT89-5/ SOP8	
ME2159	2.5-5.5V	1A 3V→5V	PFM/PWM	<12V	0.6V±2%	1MHz	Built-in NMOS	SOT23-6	
ME2109	0.9-5.5V	1A 3V→5V	PFM/PWM	<20V	1.25V±2%	300KHz	External NMOS	SOT23-5	
ME2139	0.9-5.5V	3A 3.6V→5V	PFM/PWM	<20V	1.25V±2%	1MHz	External NMOS	SOT23-5	
ME2169	2.6-5.5V	3A 3.6V→5V	PFM/PWM	<20V	1.25V±2%	1MHz	External NMOS	SOT23-6	
ME2179	1.8-5.5V	3A 3.6V→5V	PFM/PWM	<20V	0.6V±2%	1.2MHz	External NMOS	SOT23-6	
◊MEI2001	2.0-30V	1.5A 5V→9V	PFM/PWM	<20V	1.25V±2%	300KHz	External NMOS	SOT23-6	
ME2199	2.0-25V	2A 5V→9V	PFM/PWM	<20V	1.25V±2%	1MHz	External NMOS	TSOT23-8/SOP8	

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4. Inverting - Negative Output (反向-输出负压)

Part No.	VIN	VOUT	IQ	Eff.	Application	Package
ME7660	2.5-10V	-2.5 - -10V	40μA	98%	LCD Display	SOP8 DIP8

5. Li-ion Battery Charger (锂电池充电芯片)

BL系列

Part No.	Output Accu.	VIN	Max. Charger	Charger Type	IQ	Package
BL4054B	4.2V±1% 4.3V±1% 4.4V±1%	4.25~6.5V Max. 10V	800mA	Linear	100μA	SOT23-5 TSOT23-5
BL4056C	4.2V±1% 4.35V±1%	4.0~6.5V	1A	Linear	70μA	ESOP8
BL8573	4.2V±1% 4.35V±1%	4.25~6.0V	500mA/1.5A	Linear	200μA	SOT23-6 ESOP8
BL8574	4.2V±1%	4.25~6.0V	500mA	Linear	50μA	SOT23-5
BL8576	4.2V±1%	4.25~6.0V	1A	Linear	50μA	ESOP8
BL8577	4.2V±0.5%	4.25~6.0V	750mA	Linear	120μA	DFN3x3-10

ME系列

Part No.	VFLOAT/Accu	VIN	Max Charger	Charger Type	IQ	Package	注-页码
ME4054	4.2V±1%	4.25-6.5V	800mA	Linear	25μA	SOT23-5	
ME4054-N	4.2V±1%	4.25-6.5V	800mA	Linear	55μA	SOT23-5	
ME4074	4.2V±1%	4.25-6.5V	800mA	Linear	55μA	SOT23-5	
ME4075	3.6V±1%	4.25-6.5V	800mA	Linear	55μA	SOT23-5	
ME4056	4.2V/4.34V±1%	4.25-6.5V	1A	Linear	55μA	ESOP8	

Part No.	VFLOAT/Accu	VIN	Max Charger	Charger Type	IQ	Package	注-页码
ME4056-N	4.2V/4.34V±1%	4.25-6.5V	900mA	Linear	55µA	ESOP8	
ME4057	4.2V/4.34V/4.4V±1%	4.25-6.5V	1A	Linear	55µA	ESOP8	
ME4101	4.2V±1%	4.7-9V	600mA	Linear	100µA	ESOP8	新品
ME4102	4.2V±1%	4.7-9V	600mA	Linear	100µA	SOP8	新品
ME4051	4.2V±1%	4.25-9V	100mA	Linear	55µA	DFN2x2-6L	新品-P66
ME4064	4.2V/4.34V±1%	4.25-6V	800mA	Linear	55µA	SOT23-5	
ME4064-N	4.2V/4.34V±1%	4.25-9V	800mA	Linear	55µA	SOT23-5 DFN2x2-6L	
ME4055	4.2V±1%	4.25-6V	800mA	Linear	55µA	SOT23-6	
ME4055-N	4.2V±1%	4.25-9V	800mA	Linear	55µA	SOT23-6	
ME4057-N	4.2V/4.34V/4.4V±1%	4.25-9V	1A	Linear	55µA	ESOP8	
ME4059-N	4.2V/4.34V±1%	4.7-5.5V	1.5A	Switch	1µA	ESOP8	
ME4058	4.2V/4.35V/8.4V/8.7V/12.6V/13.05V±1%	6-20V	2A	Switch	10µA	SOP8	
ME4068	4.2V/4.35V±1%	4.7-14V	2.5A	Switch	2µA	ESOP8	推荐品-P67
ME4069	4.2V/4.34V±1%	4.7-5.5V	2A	Switch	0.1µA	ESOP8	推荐品-P68
ME4078	8.4V/8.7V/12.6V/13.05V±1%	10-16V	2A	Switch	6µA	ESOP8	推荐品-P69
ME4052	8.4V±1%	8.9-16V	1A	Linear	200µA	ESOP8	新品-P70
※ME4084	4.2V±1%	4.25-24V	600mA	Linear	55µA	SOT23-5	新品-P71

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6. Li-ion Battery Protection (锂电池保护芯片)

Part No.	V _{CUin}	V _{CRin}	V _{DLin}	V _{DRin}	V _{CP}	I _{DD}	Application	Package
ME4210	4.15±0.025V	4.00±0.05V	2.40±0.05V	2.80±0.05V	-200~-70mV	2.8µA	单节集成MOS锂电保护	SOT23-6
ME4211	4.30±0.05V	4.10±0.05V	2.40±0.10V	3.00±0.1V	-200~-70mV	2.8µA	单节集成MOS锂电保护	SOT23-6
ME4212	4.28±0.025V	4.08±0.05V	2.90±0.08V	3.00±0.1V	-200±30mV	5.0µA	2节锂电保护	SOT23-6
	4.35±0.025V	4.15±0.05V	2.30±0.08V	3.00±0.1V	-200±30mV			
	4.28±0.025V	4.08±0.05V	2.25±0.08V	2.95±0.1V	-200±30mV			
	4.28±0.025V	4.08±0.05V	2.80±0.08V	3.00±0.1V	-200±30mV			
	4.25±0.025V	4.05±0.05V	2.50±0.08V	3.00±0.1V	-100±30mV			
	4.25±0.025V	4.05±0.05V	2.80±0.08V	3.00±0.1V	-100±30mV			
	4.25±0.025V	4.05±0.05V	2.50±0.08V	3.00±0.1V	-200±30mV			
ME4222	4.225±0.025V	3.98±0.05V	2.79±0.08V	3.00±0.1V	-100±30mV	5.0µA	2节磷酸铁锂电池保护	SOT23-6
	3.65±0.025V	3.45±0.05V	2.00±0.08V	2.50±0.1V	-200±30mV			
	3.80±0.025V	3.70±0.05V	2.20±0.08V	2.50±0.1V	-200±30mV			
ME4214	4.25±0.025V	4.15±0.05V	2.70±0.08V	3.00±0.1V	-200±30mV	7.0µA	1/2节带级联锂电保护	MSOP10
ME4213	4.25±0.025V	4.10±0.05V	2.50±0.08V	3.00±0.1V	-200±30mV	20.0µA	3/4/5节带级联锂电保护	SSOP24

7. LED Backlight/Lighting/Screen Driver (LED背光、照明驱动电路、显示驱动)

BL系列

Part No.	Mode	VIN	IOUT	FOSC	VFB	Application	Package
BL9582B	Hysteretic Control, 1MHz Max.	6.0~32V	1.4A±4%	1MHz Max.	0.1V	LED照明	SOT89-5

ME系列

Part No.	MODE	VIN	IOUT	FOSC	VFB	Application	Package
MEL71XX	Linear	2.7-6.0V	260~350mA/±10%	-	-	LED照明	SOT89-3
MEL71XX-N	Linear	2.7-6.0V	100~400mA/±5%	-	-	LED照明	SOT89-3
MEL7136	Linear	2.7-18V	1A/±5%	-	Vcs=100mV	LED照明	SOT89-5 ESOP8 SOT23-5
ME2215	PFM/Buck	6.0-40V	1A/±5%	1MHz	100±5mV	LED照明	SOT89-5
ME2106	PFM/Boost	0.9-6.5V	1A/±10%	300KHz	200±20mV/ 100±10mV	LED照明	SOT89-5
ME2206	PWM/Boost	0.9-3.5V	1A/±10%	1MHz	95±10mV	LED照明	SOT23-6
ME2206-N	PWM/Boost	0.9-3.5V	1A/±10%	900KHz	100±10mV	LED照明	SOT23-6
ME2209	PWM/Boost	0.9-3.5V	1A/±10%	900KHz	100±10mV	LED照明	SOT23-6
ME2219	PFM/Boost	0.9-4.5V	750mA/±3%	165KHz	100±10mV	LED照明	SOT23-6
ME2212	PWM/Boost	2.5-5.5V	260mA/±5%	1MHz	200±10mV	背光 10串-3x13LED	SOT23-6
ME2214	PWM/Boost	2.5-5.5V	260mA/±5%	1MHz	200±10mV	背光 6串-3x13LED	SOT23-6
ME2216	PWM/Boost	2.5-5.5V	260mA/±5%	1MHz	200±10mV	背光 6x6-3x13LED	SOT23-6
ME2656	Linear	3.3-5.5V	16通道5-40mA/±2%	时钟30MHz	-	显示屏驱动	SSOP24-0.635

8. Voltage Detector/Reset IC (电压检测器/复位IC)

BL系列

Part No.	VDET	VIN	IOUT	IOUT	Accu.	IQ	Output Type	Delay Time	Package
			Nch	Pch					
BL8506	0.9~6V (Step 0.1V)	0.7~10V	0.05mA	2.0mA	±2%	0.5μA	CMOS Or NCh, Hysteresis 4%	N/A	SOT23-3 SOT89-3 SOT23-5 SOT23
BL8518	2.63V, 2.93V	6V		2.0mA	±3%	4.5μA	CMOS Or NCh	200ms	SOT23
BL8511	1.4V	1.2~6V	2.5mA		±2.5%	4.0μA	Nch	15ms	DFN2x2-6

ME系列

Part No.	VDET	VIN	IOUT	IOUT	Accu.	IQ	Output Type	Delay Time	Package
			Nch	Pch					
ME2803	1.0-7.0V	0.7-7.0V	0.14mA	3.4mA	±1%	0.9μA	CMOS	N/A	SOT23-3
ME2804							NMOS		
ME2805	1.0-6.5V	0.7-7.0V	0.19mA	3.4mA	±1%	0.9μA	CMOS	200ms/50ms	SOT23 SOT23-3 DFN1.2x1.6-4L DFN2.0x2.0-6L
ME2806							NMOS		
ME2805-N	1.0-6.5V	0.7-7.0V	0.19mA	3.4mA	±1%	0.9μA	CMOS	200ms/50ms	SOT23
ME2806-N							NMOS		
ME2807	2.0-7.0V	1.5-18V	1mA	0.5mA	±1%	1.8μA	CMOS	N/A	TO92 SOT23 SOT23-3 SOT89-3 DFN1.2x1.6-4L FBP1X1-4L
ME2808							NMOS		
ME2815	1.0-7.0V	0.7-7.0V	0.5mA	0.5mA	±1%	0.6μA	CMOS	Adjustable	SOT23-5
ME2816							NMOS		

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9. Load Switch (精密限流负载开关)

BL系列

Part No.	VIN	IQ	Power Switch On Resistance	Current Limit Threshold	Ioc Accuracy	Features	Package
BL2555	2.4~5.5V	15 μ A	80m Ω	Max.2A		1CH ADJ Current-Limited Power Distribution Switch	SOT23-5

ME系列

Part No.	VIN	IQ	Rdson	IOC	Ioc Accuracy	Features	Package
ME1501	2.7-5.5V	50 μ A	68m Ω	2.7A	\pm 15%	EN低有效	SOT23-5
ME1502	2.7-5.5V	50 μ A	68m Ω	可调	\pm 15%	EN高/低有效	SOT23-5

10. AC/DC Converter (AC/DC转换器)

BL PSR系列

Part No.	Pout (Max)	Standby Power	MODE	Freq	Accu	Drive Device	Drive Device	Features	Package
BL8802	15W	<75mW	PSR	110KHz	5% 3%	MOSFET	1000V	PSR	DIP7
BL8812	12W	<75mW	PSR	110KHz	5% 3%	MOSFET	650V	PSR	SOP7

ME PSR系列

Part No.	Power (85-264V)	Standby	MODE (Flyback)	Freq	Accu CC/CV	Power Dvice	Features	Package	注-页码
ME8320-N	36W	\leq 60mW	PFM /QR	120KHz	5%/3%	External NMOS	OTP/OVP	SOT23-6	
ME8311	6W	\leq 100mW	PFM	65KHz	5%/5%	Internal NMOS	OVP	SOP8 SOP7	
ME8331	5W	\leq 75mW	PFM /QR	120KHz	5%/3%	Internal BJT	OTP/OVP	SOP7	
ME8321-N	6W	\leq 75mW	PFM /QR	120KHz	5%/3%	Internal NMOS	OTP/OVP	SOP7	
ME8317	10W	\leq 100mW	PFM	65KHz	5%/5%	Internal NMOS	OVP	SOP8 SOP7	
ME8327	12W	\leq 75mW	PFM /QR	120KHz	5%/3%	Internal NMOS	OTP/OVP	SOP7	
ME8327-N	12W	\leq 60mW	PFM /QR	120KHz	5%/3%	Internal NMOS	OTP/OVP	SOP7	
ME8325-N	15W	\leq 60mW	PFM /QR	120KHz	5%/3%	Internal NMOS	OTP/OVP	DIP7	
ME8328	12W	\leq 30mW	PFM /QR	120KHz	5%/3%	Internal NMOS	OTP/OVP	SOP7	
ME8329-N	18W	\leq 60mW	PFM /QR	120KHz	5%/3%	Internal NMOS	OTP/OVP	SOP7 DIP7	
*ME8340	20W	\leq 30mW	PFM /QR	120KHz	5%/3%	Internal NMOS	OTP/OVP	DIP7	新品

*2021Q1提供新品

BL SSR系列

Part No.	Pout (Max.)	Standby Power	MODE	Freq	Accu	Drive Device	Features	Package
BL8891B	15W	<0.15W	SSR	50KHz	\pm 1%	MOSFET	SSR	DIP7
BL8851	60W	<0.15W	SSR	65KHz	\pm 1%	External MOSFET	SSR	SOT23-6

ME SSR系列

Part No.	Power (85-264V)	Standby	MODE	Freq	Accu	Power Device	Features	Package	注-页码
ME8200-N	45W	≤100mW	PWM	50-100KHz	±1%	External NMOS	Freq Shuffling/OTP/OVP	SOT23-6 DIP8 SOP8	
ME8206	90W	≤100mW	PWM/QR	70KHz	±1%	External NMOS	OTP/OVP	SOP8	
ME8210	100W	≤30mW	PWM/QR	65KHz	±1%	External NMOS	X Discharge/HV Start/OTP	SOP8	新品-P72
ME8125	4W	≤100mW	PWM	60KHz	±1%	Internal BJT	OTP/OVP	SOP6	
ME8155	5W	≤75mW	PWM	60KHz	±1%	Internal BJT	OTP/OVP	SOP6	
ME8115A/C/E	12W	≤100mW	PWM	60KHz	±1%	Internal BJT	OTP/OVP	DIP8 DIP7	
ME8117	12W	≤100mW	PWM	60KHz	±1%	Internal BJT	OTP/OVP	DIP8 DIP7	
ME8107A/B/C	15W	≤100mW	PWM	65KHz	±1%	Internal NMOS	OVP	DIP8 DIP7	
ME8112	15W	≤100mW	PWM	65KHz	±1%	Internal NMOS	OTP/OVP	DIP7	
ME8115B/D/F	15W	≤100mW	PWM	60KHz	±1%	Internal BJT	OTP/OVP	DIP8 DIP7	
ME8113	18W	≤100mW	PWM	65KHz	±1%	Internal NMOS	OTP/OVP	DIP7	
ME8103	18W	≤100mW	PWM	65KHz	±1%	Internal NMOS	OTP/OVP	SOP8	
ME8165	20W	≤100mW	PWM	60KHz	±1%	Internal BJT	OTP/OVP/OPP	DIP7 DIP8 SOP8	推荐品-P73
ME8116	20W	≤100mW	PWM	60KHz	±1%	External BJT	OTP/OVP	ESOP8	
ME8123	36W	≤100mW	PWM	65KHz	±1%	Internal NMOS	OTP/OVP	DIP8	
ME8129	72W	≤100mW	PWM	65KHz	±1%	Internal NMOS	OTP/OVP	TO220-7	
ME8213	100W	≤30mW	PWM/QR	65KHz	±1%	External NMOS	X Discharge/HV Start/OTP	SOP8	
※ME8224	45W	≤50mW	PWM/QR	65KHz	±1%	External NMOS	OTP/OVP	SOP23-6	2021Q1-P74
ME3843	-	-	PWM	ADJ	±1%	External MOS	OTP/OPP	SOP8	新品

※2021Q1提供新品

11.PFC Controller ME84 Series (功率因数校正控制芯片ME84系列)

Part No.	Power (85-264V)	Standby	MODE (Flyback)	Freq	Accu	Brownout	Enhanced Dynamic Response	Features	Package
ME8401	300W	≤300mW	PFM/PWM	65KHz	±5%	√	√	OVP	SOP8

PFC Controller With PSR For LED Driver (高PFC高效隔离恒流驱动电路)

Part No.	Features	Mode	VIN	Current Accu.	Package	Reference
BL8329	PSR Single-Stage APFC Offline LED Controller	PWM	85~264V(AC)	±3%	SOP8 SOT23-6	BP3319 SY5830

Current Ripple Removing Circuit (去纹波电流控制电路)

Part No.	Features	MOS	Package	Reference
BL8392	Current Ripple Removing Circuit	Ext-MOS	SOT23-6	JW1221A

12. Non-Isolation HV BUCK ME86 Series (非隔离型降压芯片ME86系列)

Part No.	MODE	IQ	Ron(MOS)	BVDS	Power(85-265V)	Package	注-页码
ME8604	Buck	220μA	10Ω	650V	4W	SOP7	
※ME8624	Buck	500μA	7Ω	650V	4W	SOP8	2021Q1-P75

※2021Q1提供新品

13. AC LED Driver (AC输入LED驱动芯片)

ME系列

Part No.	MODE	PF	Power (85-265V)	Accu	Mos	Segment	Package	注-页码
ME8609	Linear	0.99	12W	±5%	Internal	4 Segment	SOP8	
ME8608-N	Linear	0.5/0.9	16W	±4%	Internal	Single String	ESOP8/TO252 / SOT89-3/CPC4	
ME8618	Linear	0.9	6W	±5%	Internal	Single String	SOT89-3	
ME8326	Flyback	0.9	50W	±3%	External	NA	SOT23-6	
ME8610	Buck	0.9	30W	±3%	External	NA	SOT23-6	
ME8611	Buck	0.9	12W	±3%	Internal	NA	SOP7	
ME8615	Buck	0.9	18W	±3%	Internal	NA	DIP7	
ME8617	Buck	0.9	18W	±3%	Internal	NA	SOP7	
※ME8607	Buck		18W	±3%	Internal	NA	ESOP8/SOP7	2021Q1-P76
ME8620	Linear	0.5/0.9	16W	±5%	Internal	Single String	ESOP8	新品-P77
※ME8621	Linear	0.9	16W	±5%	Internal	Single String	ESOP8	2021Q1
ME8628	Linear	0.5/0.9	16W	±5%	Internal	Single String	ESOP8	推荐品-P78

※2021Q1提供新品

14. Synchronous Rectification Controller (同步整流控制器)

Part No.	VOUT	Operating Mode	TR	TF	Package	注-页码
ME8411-N	5V	DCM/QR	50ns	50ns	SOP8	
ME8413	5V	DCM/QR	50ns	60ns	SOP7	
ME8414	5V	DCM/QR	50ns	60ns	SOP8	
ME8415	5-20V	CCM/DCM/QR	60ns	22ns	SOT23-5	推荐品-P79
※ME8417	3.3-24V	CCM/DCM/QR	60ns	22ns	SOT23-6	2021Q1

※2021Q1提供新品

15. Constant Voltage and Constant Current Regulator (恒压恒流调节器)

Adjustable Precision Shunt Regulators (可调节精密基准电压源)

Part No.	V _{KA}	I _{KA}	V _{REF}	Voltage Tolerance	Minimum Cathode Current for Regulation I _{KA(MIN)}	Package	注-页码
◊ME431A	V _{REF} to 36V	1 to 100mA	2.5V	±0.4%	400μA	TO92 SOT23 SOT89-3	
◊ME431B	V _{REF} to 36V	1 to 100mA	2.5V	±1%	400μA	TO92 SOT23 SOT89-3	

Part No.	V _{KA}	I _{KA}	V _{REF}	Voltage Tolerance	Minimum Cathode Current for Regulation (I _{KA(MIN)})	Package	注-页码
◊ME431C	V _{REF} to 36V	1 to 100mA	2.5V	±0.2%	400μA	TO92 SOT23 SOT89-3	
ME432A	V _{REF} to 18V	0.1 to 100mA	1.25V	±0.5%	60μA	TO92 SOT23	
ME432B	V _{REF} to 18V	0.1 to 100mA	1.25V	±1%	60μA	TO92 SOT23	
ME431L	V _{REF} to 36V	0.035 to 80mA	2.5V	±0.5%	35μA	TO92 SOT23 SOT89-3	

Constant Voltage and Constant Current Controller (恒压恒流控制器)

Part No.	V _{CC}	V _{sense}	V _{REF}	Voltage Tolerance	Supply Current	Package	注-页码
ME4312B	36V	74mV	1.21V	±0.5%	1.5mA	SOP8	
ME4312C	36V	212mV	1.21V	±0.5%	1.5mA	SOP8	
ME4313B	18V	200mV	1.21V	±0.5%	1.2mA	SOT23-6	
ME4313C	18V	70mV	1.21V	±0.5%	1.2mA	SOT23-6	
ME4315	36V	70mV	1.21V	±0.5%	0.85mA	SOT23-6	
ME4315L	40V	70mV	1.21V	±1%	0.05mA	SOT23-6	新品

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16.USB Type-C Series (USB Type-C Controller系列)

Part No.	Mode	Max Charge Current	Built in Power Switch	VDD range	Package
ME9801	DFP/DRP/UFP	No	No	3~5.5V	CPC14
ME9803	DFP	3A	No	3~5.5V	SOT23-6
ME9804	DFP	3A	40mΩ	3.7~5.5V	SOP8

17. Amplifiers (放大器)

Part No.	CH	SHDN	V _{CC} (Min.)V	V _{CC} (Max.)V	V _{OS} (mV)	I _Q /CH(μA)	I _B	GBP(MHz)	PSR(dB)	CMR(dB)	Package
BL321	1	N	3	25	5	430	45nA	1	85	90	SOT23-5
BL358	2	N	3	25	5	430	45nA	1	85	90	SOP8

18.Comparator (比较器)

Part No.	CH	Operation Voltage	V _{OS} (max)	I _B	I _Q	Package	注-页码
※ME393	2	2.0-36V	5mV	25nA	0.35mA	SOP8 DIP8 CPC8	新品
ME339	4	3.0-36V	3mV	20nA	1mA	SOP14 DIP14	新品

※2021Q1提供新品

19. Drive Circuit (驱动电路)

DC Motor Driver (马达驱动)

Part No.	VIN	Channel	Continuous Current	Peak Current	OTP	Package	Application
BL116	2.0~6.0V	1	0.6A	0.9A	Y	SOT23-6	玩具
BL8310MD	2.0~6.8V	1	1A	1.5A	Y	DFN8(2x2)	水气表,智能锁,电动牙刷
BL8310MDS	2.0~6.8V	1	1A	1.5A	Y	SOP8	水气表,智能锁
BL6208	2.1~6.8V	1	1A	1.5A	Y	SOP8	IR-CUT,电动牙刷
BL113	2.1~6.8V	1	1A	1.5A	Y	SOT23-6	水汽表
BL5610	2.5~12V	1	1.2A	2A	Y	SOP8	智能锁
BL8320MD	2.7~12V	1	1.5A	2.5A	Y	DFN8(2x2)	水气表,玩具
BL8320MDS	2.7~12V	1	1.5A	2.5A	Y	SOP8	水气表,玩具
BL5612	3.0~25V	1	1.5A	3.5A	Y	SOP8	断路器
BL5615	3.0~25V	1	3A	4A	Y	ESOP8	扫地机器人
BL5616	3.0~25V	1	1.5A	3.5A	Y	SOP8	断路器、智能开关
BL5617	3.0~25V	1	3A	5A	Y	SOP8	断路器,智能锁

MOS Driver (MOSFET驱动芯片)

Part No.	Features	Channel	Power Inside	Isolation	VIN	VNEG	System Power Support	IOUT	Package	Application
BLD2113	MOS Driver	Half Bridge	No	No Build-in BSD	10~20V	-9V	600V	2.5A	SOP16	数字电源系统和电机控制 (PIN2PIN IR2113)
BLD2136	MOS Driver	3 Phase Driver	No	No Build-in BSD	10~20V	-7V	800V	0.35A	SOP28	电机控制(PIN2PIN IR2136)

Relay Driver (磁保持继电器驱动芯片)

Application: Pre-paid meter system or Power switch.

Part No.	Features	Standby	Rds(on) Typ.	Output	VDD	Package	Application	注-页码
BL8023C	Bidirectional Relay Driver	<1μA	12Ω@Vin=12V 10Ω@Vin=30V	300mA	5.0~36V	DIP8 SOP8	电表,功率补偿器,磁保持继电器	
BL8023D	Bidirectional Relay Driver	<1μA	12Ω@Vin=12V 10Ω@Vin=30V	300mA	5.0~36V	SOT23-6	电表,功率补偿器,磁保持继电器	
BL8023F	Bidirectional Relay Driver	<1μA	12Ω@Vin=12V 10Ω@Vin=30V	300mA	5.0~36V	SOT23-6	电表,功率补偿器,磁保持继电器	
BL8023H	Bidirectional Relay Driver	<1μA	7Ω@Vin=12V 6.5Ω@Vin=30V	400mA	5.0~40V	SOT23-6	电表,功率补偿器,磁保持继电器	
BL8023K	Bidirectional Relay Driver	<1μA	7Ω@Vin=12V A、B Rin=20KΩ	400mA	5.0~40V	SOT23-6	电表,功率补偿器,磁保持继电器	推荐品-P38

20. MOSFET (金属氧化物半导体场效应晶体管)

Trench MOSFET (沟槽场效应晶体管)

Part No.	BV(V)	Io(A)	RDS(ON) (mΩ)@VGS = 10V		RDS(ON)(mΩ)@VGS = 4.5V		RDS(ON)(mΩ)@VGS = 2.5V		VTH (V)			Package	注-页码
			Typ.	Max.	Typ.	Max.	Typ.	Max.	Min.	Typ.	Max.		
BLM1216Y	-12	-8	-	-	11.5	18	14	22	-0.4	-0.7	-1	SOT23	
BLM2301	-20	-3	-	-	46	70	62	100	-0.4	-0.7	-1	SOT23	

Part No.	BV(V)	I _B (A)	R _{DS(on)} (mΩ)@V _{GS} = 10V		R _{DS(on)} (mΩ)@V _{GS} = 4.5V		R _{DS(on)} (mΩ)@V _{GS} = 2.5V		V _{TH} (V)			Package	注:页码
			Typ.	Max.	Typ.	Max.	Typ.	Max.	Min.	Typ.	Max.		
BLM3415	-20	-4	-	-	34	45	44	60	-0.35	-0.55	-0.9	SOT23	
BLM2305	-20	-4.1	-	-	43	52	58	75	-0.45	-0.7	-1	SOT23	
BLM08P02	-20	-25	6	8	7	9	9	13	-0.4	-0.7	-1	TO252 PDFN3.3×3.3 PDFN5×6 SOP8	
BLM3401	-30	-4.2	50	55	64	72	95	120	-0.7	-1	-1.3	SOT23	
BLM3401AY	-30	-4.4	42	52	48	65	68	120	-0.6	-1	-1.3	SOT23	
BLM3407	-30	-4.1	46	65	65	95	-	-	-1	-1.5	-2.4	SOT23	
BLM3407AY	-30	-4.1	55	65	75	95	-	-	-1	-1.5	-2.4	SOT23	
BLM4953	-30	-5.1	48	60	73	105	-	-	-1	-1.5	-2.4	SOP8	
BLM9435	-30	-5.1	48	55	73	105	-	-	-1	-1.5	-2.4	SOP8	
BLM4435	-30	-9.1	15	20	21	35	-	-	-1	-1.5	-2.4	SOP8	
BLM4407	-30	-12	11.5	14	17	24	-	-	-1	-1.5	-2.4	SOP8	
BLM12P03	-30	-12	11.5	14	17	24	-	-	-1	-1.5	-2.4	PDFN3.3×3.3	推荐品-P39
BLM10P03	-30	-24	7	9	10	15	-	-	-1	-1.5	-2.4	TO252 PDFN3.3×3.3 PDFN5×6 SOP8	推荐品-P40
BLM40P05	-40	-3.3	69	80	110	130	-	-	-1	-1.5	-2.4	SOT23	
BLM40P07S	-40	-6.2	16	25	21	30	-	-	-1	-1.5	-2.4	SOP8	
BLM30P04	-40	-8	25	30	35	50	-	-	-1	-1.5	-2.4	SOT23 SOP8	
BLM80P10	-100	-20	70	80	90	130	-	-	-1	-1.7	-2.4	TO220 TO252	
BLM2302	20	2.9	-	-	30	45	37	59	0.5	0.75	1.2	SOT23	
BLM8205	20	4	-	-	21	27	27	37	0.5	0.7	1.2	SOT23-6	
BLM2004NE	20	6	-	-	17	24	22	30	0.45	0.7	1	SOT23-6	
BLM2008E	20	6	-	-	17	24	22	31	0.45	0.7	1	TSSOP8	
BLM8205A	20	6	-	-	21	27	27	37	0.5	0.7	1.2	TSSOP8	
BLM8205B	20	6	-	-	16	22	19	27	0.5	0.7	1.2	TSSOP8	
BLM9926	20	6	-	-	26	30	36	40	0.5	0.7	1.2	SOP8	
BLM3416	20	6.5	-	-	19	24	23	30	0.45	0.7	1	SOT23	
BLM8205BF	20	6.5	-	-	14.5	22	19	27	0.5	0.7	1.2	SOT23 TSSOP8	
BLM2010E	20	7	-	-	16	21	20	27	0.5	0.65	0.9	TSSOP8	
BLM3400	30	5.8	31	41	34	45	45	59	0.7	0.9	1.4	SOT23	
BLM3404	30	5.8	25.5	31	36	43	-	-	1	1.6	2.4	SOT23	
BLM3050K	30	50	8	11	10	16	-	-	1	1.6	2.4	TO252	
BLM30N06L	60	20	25	30	35	50	-	-	1	1.7	2.4	TO252	
BLM15N06L	60	60	10	15	20	30	-	-	1	1.7	2.4	TO252	
BLM15N06	60	60	11	15	-	-	-	-	2	3	4	TO252	
BLM12N06L	60	70	9	12	14	25	-	-	1	1.7	2.4	TO252	
BLM12N06	60	70	10	12	-	-	-	-	2	3	4	TO252	

Part No.	BV(V)	I _D (A)	R _{DS(ON)} (mΩ)@V _{GS} = 10V		R _{DS(ON)} (mΩ)@V _{GS} =4.5V		R _{DS(ON)} (mΩ)@V _{GS} =2.5V		V _{TH} (V)			Package	注-页码
			Typ.	Max.	Typ.	Max.	Typ.	Max.	Min.	Typ.	Max.		
BLM08N06	60	80	7	8	-	-	-	-	2	3	4	TO220 TO252	推荐品-P41
BLM07N06	60	95	6	7	-	-	-	-	2	3	4	TO220 TO252	
BLM04N06	60	150	3	4	-	-	-	-	2	3	4	TO220 TO263	
BLM09N68	68	70	7.5	9	-	-	-	-	2	3	4	TO220 TO252	
BLM08N68	68	90	7	8	-	-	-	-	2	3	4	TO220 TO252	
BLM14N08	80	60	12	14	-	-	-	-	2	3	4	TO220 TO252	
BLM12N08	80	70	10	12	-	-	-	-	2	3	4	TO220 TO252	
BLM06N08	80	140	4.9	5.9	-	-	-	-	2	3	4	TO220 TO263	推荐品-P42
BLM04N08	80	200	3.5	4.2	-	-	-	-	2	3	4	TO220 TO263	
BLM90N10L	100	10	72	90	110	150	-	-	1	1.8	2.4	TO252	
BLM35N10L	100	20	28	35	38	50	-	-	1	1.8	2.4	TO252	
BLM35N10	100	20	29	35	39	50	-	-	2	3	4	TO252	
BLM30N10L	100	25	25	30	35	45	-	-	1	1.8	2.4	TO252	
BLM30N10	100	25	28	35	35	45	-	-	2	3	4	TO252	
BLM22N10	100	50	18	22	-	-	-	-	2	3	4	TO220 TO252	
BLM16N10	100	60	13	16	-	-	-	-	2	3	4	TO220 TO252	
BLM08N10	100	110	7	8	-	-	-	-	2	3	4	TO220 TO263	
BLM06N10	100	140	5	6	-	-	-	-	2	3	4	TO220 TO263	推荐品-P43

Double Trench MOSFET (双沟槽场效应晶体管)

Part No.	BV(V)	I _D (A)	R _{DS(ON)} (mΩ)@V _{GS} = 10V		R _{DS(ON)} (mΩ)@V _{GS} =4.5V		V _{TH} (V)			Package	注-页码
			Typ.	Max.	Typ.	Max.	Min.	Typ.	Max.		
BLP25N06L	60	10	17	20	22	27	1	2	3	PDFN 3.3X3.3	
BLP05N08G	85	120	4.4	5	-	-	2	3	4	TO220 TO263	推荐品-P44
BLP065N08G	85	80	5.4	6.5	-	-	2	3	4	TO220 TO263	推荐品-P45
BLP10N10	100	30	8	10	-	-	2	3	4	TO252 PDFN5x6	
BLP10N10L	100	30	8	10	11	15	1	1.8	2.5	TO252 PDFN5x6	
BLP08N10	100	50	6.8	8	-	-	2	3	4	TO252 PDFN5x6	
BLP08N10L	100	50	6.8	8	9	12	1	1.8	2.5	TO252 PDFN5x6	
BLP12N10	100	30	10	12	-	-	2	3	4	TO252 PDFN5x6	
BLP12N10L	100	30	10	12	13	17	1	1.8	2.5	TO252 PDFN5x6	
BLP150N10	100	150	3.6	4.5	-	-	2	3	4	TO220 TO263	推荐品-P46

High Voltage Planar MOSFET (高压平面型场效应晶体管)

Part No.	V _{DSS} (V)	I _D (A)	R _{DS(on)} (Ω) @V _{GS} = 10V		V _{GS(th)} (V)			Package	注:页码
			Typ.	Max.	Min.	Typ.	Max.		
BL36N12L	120	36	0.05	0.06	1.5	2	2.5	TO251 TO252	
BL25N15L	150	25	0.075	0.09	0.4	0.6	1.3	TO251 TO252	
BL25N15BL	150	25	0.065	0.08	1.5	2	2.5	TO251 To252	
BS108	200	0.3	-	5	0.4	-	1.8	TO92	
BL9N20L	200	9	0.27	0.32	1	1.5	2	TO251 TO252	
BL9N20	200	9	0.27	0.32	2	3	4	TO251 TO252	
BL15N20	200	15	0.14	0.2	2	3	4	TO251 TO252	
BL18N20L	200	18	0.12	0.15	1.5	2	2.5	TO220F TO220 TO251 TO252	
BL18N20	200	18	0.12	0.15	2	3	4	TO220F TO220 TO251 TO252	
BL30N20	200	30	0.071	0.085	2	3	4	TO220F TO220 TO251 TO252	
BL30N20B	200	30	0.065	0.075	2	3	4	TO220F TO220 TO251 TO252	
BL70N20B	200	70	0.032	0.036	2	3	4	TO247 TO3PN	
BL80N20BL	200	80	0.02	0.025	0.4	0.6	1.3	TO247 TO3PN	
BL80N20B	200	80	0.02	0.025	2	3	4	TO247 TO3PN	
BL80N20L	200	80	0.022	0.028	0.4	0.6	1.3	TO247 TO3PN	
BL80N20	200	80	0.022	0.028	2	3	4	TO247 TO3PN	
BL9N25	250	9	0.32	0.4	2	3	4	TO220F TO220 TO251 TO252	
BL13N25L	250	13	0.17	0.21	1.5	2	2.5	TO220F TO220 TO251 TO252	
BL13N25	250	13	0.17	0.21	2	3	4	TO220F TO220 TO251 TO252	
BL15N25	250	15	0.18	0.22	2	3	4	TO220F TO220 TO251 TO252	
BL18N25	250	18	0.16	0.2	2	3	4	TO220F TO220 TO251 TO252	
BL28N25	250	28	0.13	0.16	2	3	4	TO220F TO220 TO251 TO252	
BL33N25B	250	33	0.1	0.13	2	3	4	TO220F TO220	
BL33N25	250	33	0.11	0.15	2	3	4	TO220F TO220	
BL40N25B	250	40	0.06	0.07	2	3	4	TO247 TO3PN	
BL40N25	250	40	0.065	0.08	2	3	4	TO247 TO3PN	
BL60N25B	250	60	0.038	0.045	2	3	4	TO247 TO3PN	
BL60N25	250	60	0.042	0.05	2	3	4	TO247 TO3PN	
BL90N25B	250	90	0.025	0.03	2	3	4	TO247 TO3PN	
BL90N25	250	90	0.027	0.032	2	3	4	TO247 TO3PN	
BL13N30	300	13	0.21	0.25	2	3	4	TO220F TO220 TO251 TO252	
BL30N30	300	30	0.11	0.14	2	3	4	TO220 TO220F TO263	
BL40N30L	300	40	0.09	0.11	0.4	0.6	1.3	TO247 TO3PN	
BL40N30	300	40	0.09	0.11	2	3	4	TO247 TO3PN	
BL50N30	300	50	0.05	0.06	2	3	4	TO247 TO3PN	

Part No.	V _{DSS} (V)	I _e (A)	R _{DS(on)} (Ω)@V _{GS} = 10V		V _{GS(th)} (V)			Package	注-页码
			Typ.	Max.	Min.	Typ.	Max.		
BL59N30	300	59	0.032	0.041	2	3	4	TO247 TO3PN	
BL6N40L	400	6	0.75	0.9	0.4	0.6	1.3	TO251 TO252 TO220F TO220	
BL6N40	400	6	0.75	0.9	2	3	4	TO251 TO252 TO220F TO220	
BL10N40	400	10	0.4	0.46	2	3	4	TO251 TO252 TO220F TO220	
BL11N40	400	11	0.37	0.45	2	3	4	TO220F TO220 TO251 TO252	
BL19N40	400	19	0.22	0.27	2	3	4	TO220F TO220	
BL25N40	400	25	0.135	0.27	2	3	4	TO220F TO220 TO247 TO3PN	
BL35N40	400	35	0.09	0.11	2	3	4	TO247 TO3PN	
BL2N50	500	2	2.5	3	2	3	4	TO220F TO220 TO251 TO252	
BL5N50	500	5	1.31	1.57	2	3	4	TO251 TO252 TO220F TO220	
BL5N50A	500	5	1.45	1.75	2	3	4	TO251 TO252 TO220F TO220	
BL8N50	500	8	0.73	0.9	2	3	4	TO220F TO220 TO251 TO252	
BL8N50C	500	8	0.6	0.72	2	3	4	TO220F TO220 TO251 TO252	
BL9N50	500	9	0.57	0.7	2	3	4	TO251 TO252 TO220 TO220F	
BL12N50	500	12	0.52	0.62	2	3	4	TO220 TO220F	
BL13N50	500	13	0.37	0.46	2	3	4	TO220 TO220F	
BL15N50	500	15	0.27	0.36	2	3	4	TO220 TO220F	
BL20N50	500	20	0.21	0.28	2	3	4	TO220 TO220F TO3PF TO3PN	
BL23N50	500	23	0.22	0.27	2	3	4	TO220F TO220 TO3PN TO3PF	
BL25N50	500	25	0.15	0.21	2	3	4	TO3PF TO3PN	
BL30N50	500	30	0.08	0.12	2	3	4	TO247 TO3PN	
BL2N60	600	2	3.4	4	2	3	4	TO251 TO252 TO220 TO220F	
BL4N60A	600	4	2.2	2.6	2	3	4	TO251 TO252 TO220 TO220F	
BL4N60	600	4	1.7	2	2	3	4	TO251 TO252 TO220 TO220F	
BL7N60A	600	7	1	1.25	2	3	4	TO251 TO252 TO220 TO220F	
BL8N60	600	8	0.85	1	2	3	4	TO251 TO252 TO220 TO220F	
BL10N60A	600	10	0.67	0.8	2	3	4	TO220 TO220F	
BL10N60	600	10	0.47	0.6	2	3	4	TO220 TO220F	
BL12N60A	600	12	0.46	0.56	2	3	4	TO220 TO220F	
BL12N60	600	12	0.4	0.5	2	3	4	TO220 TO220F	
BL20N60	600	20	0.29	0.4	2	3	4	TO220 TO220F TO247 TO3PN	
BL25N60	600	25	0.19	0.26	2	3	4	TO247 TO3PN	
BL30N60	600	30	0.11	0.15	2	3	4	TO247 TO3PN	
BL2N65	650	2	4.5	5.4	2	3	4	TO251 TO252 TO220 TO220F	
BL4N65A	650	4	2.3	2.9	2	3	4	TO251 TO252 TO220 TO220F	

Part No.	V _{DSS} (V)	I _D (A)	R _{DS(on)} (Ω)@V _{GS} = 10V		V _{GS(th)} (V)			Package	注:页码
			Typ.	Max.	Min.	Typ.	Max.		
BL4N65	650	4	2	2.6	2	3	4	TO251 TO252 TO220 TO220F	
BL7N65	650	7	1	1.25	2	3	4	TO251 TO252 TO220 TO220F	
BL7N65A	650	7	1.2	1.55	2	3	4	TO251 TO252 TO220 TO220F	
BL7N65B	650	7	1	1.25	2	3	4	TO251 TO252 TO220 TO220F	
BL8N65	650	8	0.98	1.2	2	3	4	TO251 TO252 TO220 TO220F	
BL10N65A	650	10	0.8	1	2	3	4	TO220 TO220F	
BL10N65	650	10	0.55	0.75	2	3	4	TO220 TO220F	
BL12N65A	650	12	0.54	0.72	2	3	4	TO220 TO220F	
BL12N65	650	12	0.45	0.54	2	3	4	TO220 TO220F	
BL20N65	650	20	0.38	0.46	2	3	4	TO220 TO220F TO247 TO3PN	
BL25N65	650	25	0.25	0.28	2	3	4	TO247 TO3PN	
BL30N65	650	30	0.15	0.18	2	3	4	TO247 TO3PN	
BL2N70	700	2	5	6	2	3	4	TO251 TO252 TO220 TO220F	
BL4N70	700	4	2.4	2.8	2	3	4	TO251 TO252 TO220 TO220F	
BL4N70A	700	4	3	3.5	2	3	4	TO251 TO252 TO220 TO220F	
BL6N70A	700	6	1.5	1.9	2	3	4	TO251 TO252 TO220 TO220F	
BL7N70A	700	7	1.1	1.3	2	3	4	TO251 TO252 TO220 TO220F	
BL7N70	700	7	1.2	1.4	2	3	4	TO251 TO252 TO220 TO220F	
BL10N70A	700	10	1	1.2	2	3	4	TO220 TO220F	
BL10N70	700	10	0.7	0.85	2	3	4	TO220 TO220F	
BL12N70A	700	12	0.66	0.8	2	3	4	TO220 TO220F	
BL12N70	700	12	0.59	0.7	2	3	4	TO220 TO220F	
BL4N80A	800	3.5	3.41	4	2.8		4.2	TO220 TO220F TO252 TO251	
BL4N80	800	4	2.47	3	3	3.5	4	TO220 TO220F TO251 TO252	推荐品-P47
BL4N80E	800	4	4.47	5.3	3	3.5	4	TO220 TO220F TO251 TO252	
BL10N80	800	10	0.59	0.7	3	3.5	4	TO220 TO220F TO3PN TO3PF TO247	
BL3N90	900	3	3.9	4.5	2.8		4.2	TO220 TO220F TO252 TO251	
BL3N90E	900	3	4.6	5.5	3	3.5	4	TO220F TO251 TO252	推荐品-P48
BL4N90	900	4	2.6	3	3	3.5	4	TO220 TO220F TO251 TO252	
BL9N90	900	9	0.72	0.86	3	3.5	4	TO220 TO220F TO3PN TO3PF TO247	
BL2N100	1000	2	5.2	6	3	3.5	4	TO220 TO220F TO3PN TO3PF TO247	
BL3N100	1000	3	3.2	4	3	3.5	4	TO220 TO220F TO251 TO252	
BL3N100E	1000	2.5	6.2	7.5	3	3.5	4	TO220 TO220F TO251 TO252	推荐品-P49
BL8N100	1000	8	1	1.2	3	3.5	4	TO220 TO220F TO3PN TO3PF TO247	
BL3N105	1050	3	4	4.8	3	3.5	4	TO220 TO220F TO251 TO252	

Part No.	V _{DSS} (V)	I _D (A)	R _{DS(ON)} (Ω)@V _{GS} = 10V		V _{GS(th)} (V)			Package	注-页码
			Typ.	Max.	Min.	Typ.	Max.		
BL3N120	1200	3	5	6	3	4	5	TO220 TO220F TO251 TO252	
BL4N120	1200	4	2.9	3.5	3	4	5	TO220 TO220F TO247 TO3PF TO3PN	
BL6N120	1200	6	2.1	2.5	3	4	5	TO220 TO220F TO247 TO3PF TO3PN	推荐品-P50
BL5N135	1350	5	3	3.6	3	4	5	TO220 TO220F TO3PN TO3PF TO247	
BL2N150	1500	2	8.3	10	3	4	5	TO220 TO220F TO251 TO252	
BL3N150	1500	3	4.8	6	3	4	5	TO220 TO220F TO247 TO3PF TO3PN	
BL4N150	1500	4	3.5	4.2	3	4	5	TO220 TO220F TO247 TO3PF TO3PN	推荐品-P51
BSP304	-300	0.17	-	17	-1.7	-	-2.55	TO92	

High Voltage Super Junction MOSFET (高压超结型场效应晶体管)

Part No.	V _{DSS} (V)	I _D (A)	R _{DS(ON)} (Ω)@V _{GS} = 10V		V _{GS(th)} (V)			Package
			Typ.	Max.	Min.	Typ.	Max.	
BLS60R520	600	8.0	0.46	0.52	3.0	3.5	4.0	TO220 TO220F TO251 TO252
BLS60R360	600	11	0.31	0.36	2.5	3.0	3.5	TO220 TO220F TO251 TO252
BLS60R380F	600	11	0.33	0.38	3.5	4.0	4.5	TO220 TO220F TO251 TO252
BLS60R150	600	25	0.12	0.15	3.0	3.5	4.0	TO220 TO220F TO247 TO3PN
BLS60R150F	600	25	0.13	0.15	3.5	4.0	4.5	TO220 TO220F TO247 TO3PN
BLS60R036	600	80	0.032	0.036	3.5	4.0	4.5	TO247 TO3PN
BLS60R600EF	600	7	0.52	0.6	3.5	4.0	4.5	TO220 TO220F TO251 TO252
BLS60R560EF	600	8	0.45	0.58	3.0	3.5	4.0	TO220 TO220F TO251 TO252
BLS60R520EP	600	8	0.46	0.59	3.0	3.5	4.0	TO220 TO220F TO251 TO252
BLS60R160	600	24	0.14	0.16	2.0	3.0	4.0	TO220
BLS60R390F	600	11	0.32	0.39	3.0	4.0	5.0	TO220
BLS65R620F	650	8	0.55	0.71	3.5	4.0	4.5	TO220 TO220F TO251 TO252
BLS65R560	650	8	0.5	0.56	3.0	3.5	4.0	TO220 TO220F TO251 TO252
BLS65R380	650	11	0.33	0.38	2.5	3.0	3.5	TO220 TO220F TO251 TO252
BLS65R165	650	24	0.33	0.17	3.0	3.5	4.0	TO220 TO220F TO247 TO3PN
BLS65R041F	650	80	0.33	0.042	3.5	4	4.5	TO247 TO3PN
BLS70R600	700	8	0.33	0.6	3.0	3.5	4.0	TO220 TO220F TO251 TO252
BLS70R420	700	11	0.33	0.42	2.5	3.0	3.5	TO220 TO220F TO251 TO252
BLS70R180	700	23	0.33	0.18	3.0	3.5	4.0	TO220 TO220F TO247 TO3PN
BLS80R760	800	10	0.59	0.76	2.5	3.0	3.5	TO220 TO220F TO251 TO252
BLS80R990	800	7	0.88	1.1	2.5	3.0	3.5	TO220 TO220F TO251 TO252
BLS80R1K0E	800	8	0.89	1.1	2.5	3.0	3.5	TO220 TO220F TO251 TO252 SOT223

21.IGBT (绝缘栅双极晶体管)

Part No.	BV _{CE(S)} (V)	I _c (A)	V _{CE(sat)} (V)		V _{GS(th)} (V)			Package
			Typ.	Max.	Min.	Typ.	Max.	
BLG3040	400	17	1.3	1.6	1.3	1.8	2.2	TO252
BLG40T120FDH	1200	40	2.1	2.4	5.0	6.0	6.5	TO247
BLG40T120FUH	1200	40	2.1	2.4	5.0	6.0	6.5	TO247

BL8078

40V 150mA Low Consumption Linear Regulator

DESCRIPTION

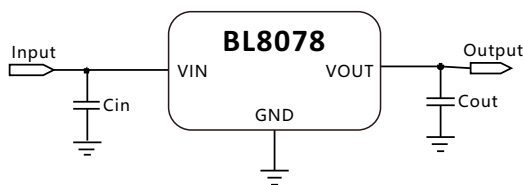
BL8078 series is a group of positive voltage output, low power consumption, low dropout voltage regulator. It can provide 150mA output current when input / output voltage differential drops to 400mV ($V_{out} = 5V$), and it also provides foldback short-circuit protection, thermal protection and output current limit function. The very low power consumption of BL8078 ($I_q = 2.5\mu A$) can greatly improve natural life of batteries.

BL8078 can provide output value in the range of 1.2V~5.0V in 0.1V steps. It also can customize on command.

BL8078 includes high accuracy voltage reference, error amplifier, current limit circuit and output driver module.

BL8078 has well load transient response and good temperature characteristic, And it uses trimming technique to guarantee output voltage accuracy within $\pm 2\%$.

TYPICAL APPLICATION



NOTE:

Input capacitor ($C_{in} = 1\mu F$) and Output capacitor ($C_{out} = 1\mu F$) are recommended in all application circuit. Ceramic capacitor is recommended.

FEATURES

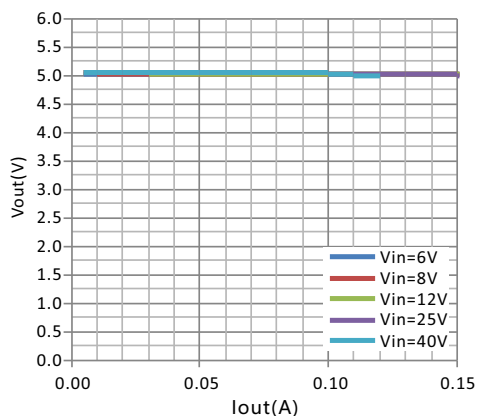
- Low Power Consumption: $2.5\mu A$ (Typ.)
- Maximum Output Current: 150mA
- Small Dropout Voltage
 $400mV @ 100mA$ ($V_{out} = 5V$)
- Input Voltage Range: 3V~40V
- Output Voltage Range: 1.2V~5.0V
($V_{out} > 5V$ customized)
- Highly Accurate: $\pm 2\%$ ($\pm 1\%$ customized)
- Output Current Limit: 180mA

APPLICATIONS

- Battery Powered equipment
- Power Management of MP3, PDA, DSC, Mouse, PS2 Games
- Reference Voltage Source Regulation after Switching Power

ELECTRICAL CHARACTERISTICS

Load Regulation



BL8064

200mA Low Consumption Linear Regulator

DESCRIPTION

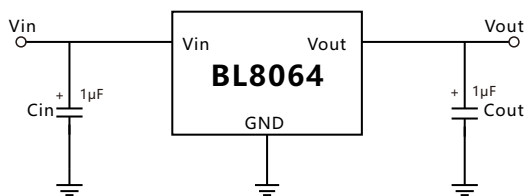
BL8064 series is a group of positive voltage output, low power consumption, low dropout voltage, three terminal regulator. It can provide 200mA output current when input/output voltage differential drops to 430mV ($V_{out} = 2.8V$). The very low power consumption of BL8064 ($I_q = 1.0\mu A$) can greatly improve natural life of batteries.

BL8064 can provide output value in the range of 1.1V~5.5V in 0.1V steps. It also can be customized on command.

BL8064 includes high accuracy voltage reference, error amplifier, current limit circuit and output driver module.

BL8064 has well load transient response and good temperature characteristic, and it uses trimming technique to guarantee output voltage accuracy within $\pm 2\%$.

TYPICAL APPLICATION



Note:

Input capacitor ($C_{in} = 1\mu F$) and output capacitor ($C_{out} = 1\mu F$) are recommended in all application circuit. Ceramic capacitor is recommended.

FEATURES

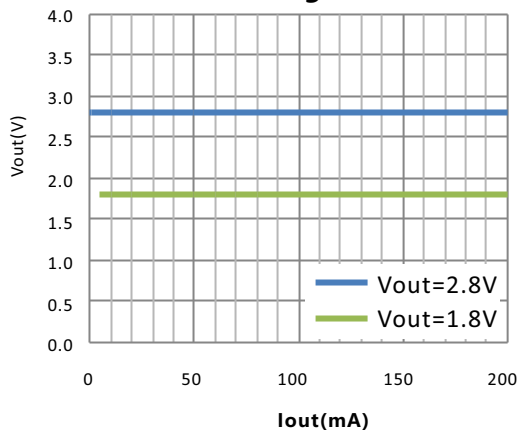
- Low power consumption: $1.0\mu A$ (Typ.)
- Maximum output current: 200mA
- Small dropout voltage
 - 210mV@100mA ($V_{out} = 2.8V$)
 - 430mV@200mA ($V_{out} = 2.8V$)
- Input voltage range: 1.5V~6V
- Output voltage range: 1.1V~5.5V (customized on command in 0.1V steps)
- Highly accurate: $\pm 2\%$ ($\pm 1\%$ customized)
- Output current limit

APPLICATIONS

- Battery powered equipment
- Power management of MP3, PDA, DSC, mouse, PS2 games
- Reference voltage source regulation after switching power

ELECTRICAL CHARACTERISTICS

Load Regulation



BL8062

250mA Low Consumption Linear Regulator

DESCRIPTION

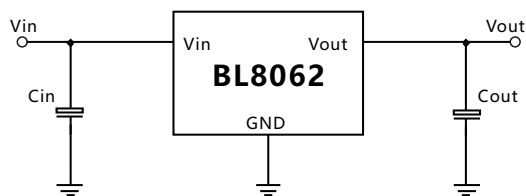
BL8062 series is a group of positive voltage output, low power consumption, low dropout voltage, three terminal regulator. It can provide 200mA output current when input / output voltage differential drops to 418mV ($V_{out}=3.3V$), And it also provides foldback short-circuit protection and output current limit function. The very low power consumption of BL8062 ($I_q=3\mu A$) can greatly improve natural life of batteries.

BL8062 can provide output value in the range of 1.2V~5.0V in 0.1V steps. It also can customized on command.

BL8062 includes high accuracy voltage reference, error amplifier, current limit circuit and output driver module.

BL8062 has well load transient response and good temperature characteristic, And it uses trimming technique to guarantee output voltage accuracy within $\pm 2\%$.

TYPICAL APPLICATION



Note:

Input capacitor ($C_{in}=1\mu F$) and output capacitor ($C_{out}=1\mu F$) are recommended in all application circuit. Ceramic capacitor is recommended.

FEATURES

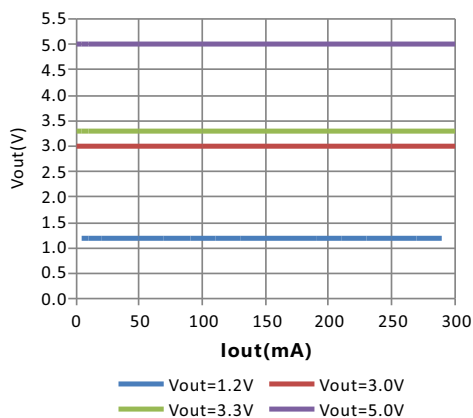
- Low power consumption: $3\mu A$ (Typ.)
- Maximum output current: 250mA
- Small dropout voltage
 - 211mV@100mA ($V_{out}=3.3V$)
 - 418mV@200mA ($V_{out}=3.3V$)
- Input voltage range: 2.5V~16V
- Output voltage range: 1.2V~5.0V
(customized on command in 0.1V steps)
- Highly accurate: $\pm 2\%$ ($\pm 1\%$ customized)
- Output current limit: 500mA
- Foldback short-circuit current: 85mA

APPLICATIONS

- Battery powered equipment
- Power management of MP3, PDA, DSC, mouse, PS2 games
- Reference voltage source regulation after switching power

ELECTRICAL CHARACTERISTICS

Load Regulation



BL8077

0.8uA Low Power Consumption Regulator with Enable

DESCRIPTION

The BL8077 is a group of positive voltage output, low power consumption, low dropout voltage regulator. The very low power consumption of BL8077 (0.8uA, Typ) can greatly improve natural life of batteries. The BL8077 includes high accuracy voltage reference, error amplifier and output driver module with discharge capability. And it also provides foldback short-circuit protection, thermal protection and output current limit function.

The BL8077 can provide output value of fixed version as 1.2V, 1.8V, 2.5V, 2.8V, 3V, and 3.3V. It also can be customized on command.

BL8077 is available in SOT23-5 and DFN1x1-4 which are lead free.

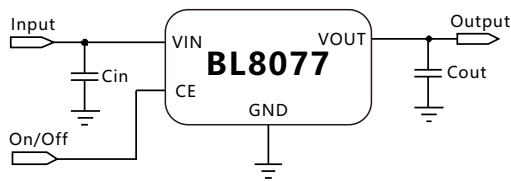
FEATURES

- Maximum output current:300mA
- Low power consumption: 0.8uA (Typ.)
- Stand-by current: less than 0.1uA
- Operating input voltage:1.8V~5.5V
- Low dropout voltage:
150mV @100mA @Vout=3.3V (Typ.)
- Low temperature coefficient: $\pm 100\text{ppm/C}$
- Build-in chip enable and discharge circuit
- Built-in output current limit circuit

APPLICATIONS

- Mobile phones
- Battery powered equipment
- Cordless phones, wireless communication equipment
- Cameras, video recorders
- Portable AV equipment
- PDAs

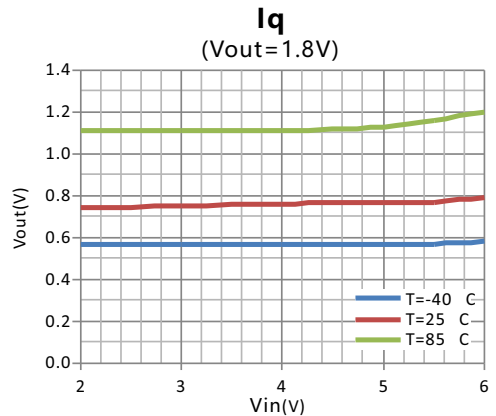
TYPICAL APPLICATION



Note:

Input capacitor ($C_{in}=1\mu\text{F}$) and output capacitor ($C_{out}=1\mu\text{F}$) are recommended in all application circuit.

ELECTRICAL CHARACTERISTICS



BL9162

300mA High PSRR, Ultra-low Noise, Ultra-Fast CMOS LDO Regulator

FEATURES

- Ultra-low Noise
- Ultra-Fast Transient Response
- High PSRR: -87dB @ 217Hz
-83dB @ 1KHz
-54dB @ 1MHz
- 0.1 A Standby Current When Shutdown
- Low Dropout: 140mV@300mA ($V_{OUT}=2.8V$)
- Wide Operating Voltage Ranges:
1.6V to 5.5V
- Current Limiting and Short Circuit Current Protection
- Thermal Shutdown Protection
- Only 1 F Output Capacitor Required for Stability
- Fast output discharge
- Available in SOT23-5, SC70-5 and DFN1X1-4L Packages

- Laptop, Palmtops, Notebook Computers
- Hand-Held Instruments
- PCMCIA Cards
- Portable Information Appliances

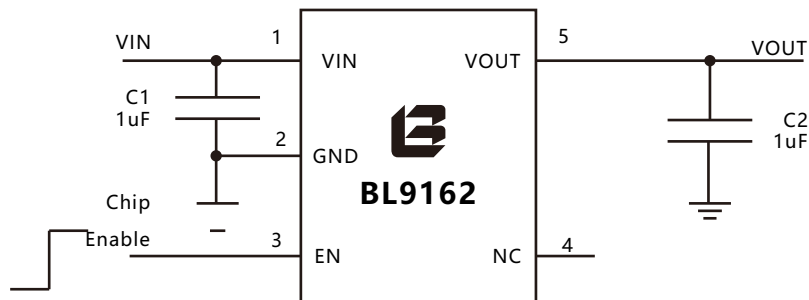
DESCRIPTION

The BL9162 is designed for portable applications with demanding performance and space requirements. The BL9162 performance is optimized for battery-powered systems to deliver ultra-low noise and low quiescent current. Regulator ground current increases only slightly in dropout, further prolonging the battery life. The BL9162 also works with low-ESR ceramic capacitors, reducing the amount of board space necessary for power applications, critical in hand-held wireless devices. The BL9162 consumes only 0.1 μ A current in shutdown mode and has fast turn-on time (Typical 100 μ s). The other features include ultra-low dropout voltage, high output accuracy, current limiting protection, and high ripple rejection ratio.

APPLICATIONS

- Cellular and Smart Phones
- Cordless Telephones
- Camera and Machine Vision Modules
- Battery-Powered Equipment

TYPICAL APPLICATION



BL8075

16V 500mA Low Consumption Linear Regulator

DESCRIPTION

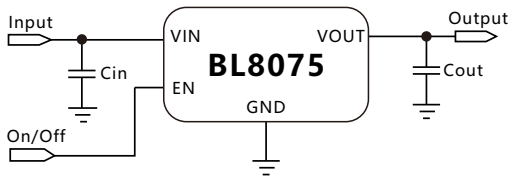
BL8075 series is a group of positive voltage output, low power consumption, low dropout voltage regulator. It can provide 300mA output current when input / output voltage differential drops to 600mV ($V_{out}=3.3V$), and it also provides foldback short-circuit protection, thermal protection and output current limit function. The very low power consumption of BL8075 ($I_q=10\mu A$) can greatly improve natural life of batteries.

BL8075 can provide output value in the range of 1.2V~5.0V in 0.1V steps. It also can customize on command.

BL8075 includes high accuracy voltage reference, error amplifier, current limit circuit and output driver module.

BL8075 has well load transient response and good temperature characteristic, And it uses trimming technique to guarantee output voltage accuracy within $\pm 2\%$.

TYPICAL APPLICATION



NOTE:

Input capacitor ($C_{in}=1\mu F$) and Output capacitor ($C_{out}=1\mu F$) are recommended in all application circuit. Ceramic capacitor is recommended.

FEATURES

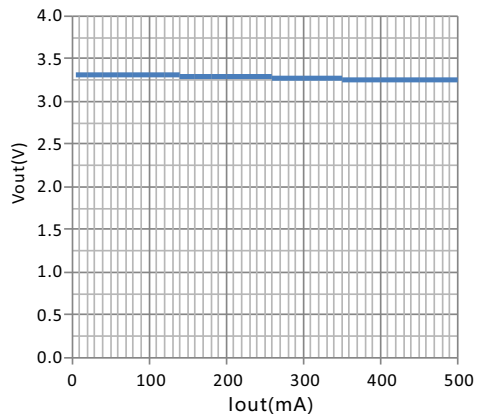
- Low Power Consumption: 10 μA (Typ.)
- Maximum Output Current: 500mA
- Small Dropout Voltage
600mV@300mA ($V_{out}=3.3V$)
1.2V@500mA ($V_{out}=3.3V$)
- Input Voltage Range: 3V~16V
- Output Voltage Range: 1.2V~5.0V
(customized on command in 0.1V steps)
- Highly Accurate: $\pm 2\%$ ($\pm 1\%$ customized)
- Output Current Limit: 650mA

APPLICATIONS

- Battery Powered equipment
- Power Management of MP3、PDA、DSC、Mouse、PS2 Games
- Reference Voltage Source Regulation after Switching Power

ELECTRICAL CHARACTERISTICS

Load Regulation



BL8079A

600mA High PSRR, Fast Response Linear Regulator

DESCRIPTION

BL8079A series is a group of positive voltage output, low power consumption, low dropout voltage regulator.

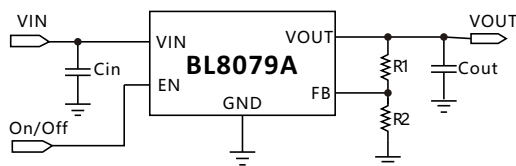
BL8079A can provide output value adjustable from 0.8V to 5.0V.

BL8079A includes high accuracy voltage reference, error amplifier, current limit circuit and output driver module with discharge capability.

BL8079A has excellent load and line transient response and good temperature characteristics, which can assure the stability of chip and power system. It uses trimming technique to guarantee output voltage accuracy within $\pm 2\%$. And it also provides foldback short-circuit protection, thermal protection and output current limit function.

BL8079A is available in SOT23-5 and SC70-5 packages which are lead free.

TYPICAL APPLICATION



Note:

1) Input capacitor ($C_{in}=1\mu F$) and Output capacitor ($C_{out}=1\mu F$) are recommended in all application circuit.

2) $V_{OUT}=V_{FB}*(1+\frac{R1}{R2})$, $V_{FB}=0.8V$

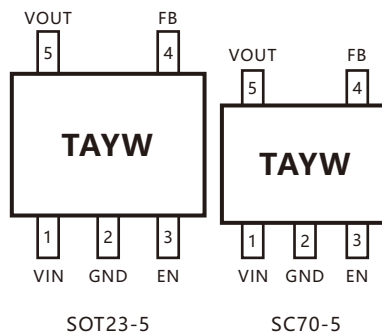
FEATURES

- Low Power Consumption: $40\mu A$ (Typ.)
- Maximum output current: 600mA
- Low dropout Voltage:
 - $170mV@I_{out}=300mA, V_{out}=3.3V$
 - $355mV@I_{out}=600mA, V_{out}=3.3V$
- Build-in chip enable and discharge circuit
- Input voltage range: 2.5~6V
- Adjustable Output from 0.8V to 5.0V
- Output Voltage Accuracy: $\pm 2\%$
- Output current limit: 1A (Typ.)
- OCP/SCP/TSD protection

APPLICATIONS

- Power source for cellular phones and various kind of PCSs
- Battery Powered equipment
- Power Management of MP3, PDA, DSC, Mouse, PS2 Games
- Reference Voltage Source
- Regulation after Switching Power

PIN OUT & MARKING



TA: Product Code
YW: Date code (Year & Week)

BL9110

1A Low Dropout, Low Quiescent Current High PSRR CMOS Linear Regulator

FEATURES

- Up to 1A Output Current
- 70uA Operating Supply Current
- Excellent Line Regulation: 0.05%/V
- Low Dropout: 350mV@1A(VOUT=3.3V)
- High Power Supply Rejection Ratio
- Wide Operating Voltage Range: 2.5V to 6.0V
- 1V to 5V Factory-Preset Output
- High Accuracy: $\pm 1\%$ or $\pm 2\%$
- Built-in Auto Discharge Function
- 500mA in-rush Current Limit
- Fold-back Current Limit Protection
- Thermal Shutdown Protection
- DFN-6, SOT-89-5, SOT-89-3, SOT-223-5, SOT-223-3, TO-263-3, TO-220-3, TO-252-3 and TO-252-5 Package
- RoHS Compliant and 100% Lead (Pb)-Free

ORDERING INFORMATION

BL9110-VVV X X XX

Package:
 AA: DFN-6
 BA: SOT-89-5-A BB: SOT-89-5-B
 CA: TO-252-5
 DA: SOT-223-5
 EA: TO-252-3-A EB: TO-252-3-B
 FA: SOT-223-3-A FB: SOT-223-3-B
 FC: SOT-223-3-C FD: SOT-223-3-D
 GA: TO-263-3-A GB: TO-263-3-B
 GC: TO-263-3-C
 HA: TO-220-3
 IA: SOT-89-3-A IB: SOT-89-3-B
 IC: SOT-89-3-C
 JA: TO92-3

Features:
 P: Standard (default, lead free)
 C: Customized

Output Voltage Accuracy
 A: $\pm 1\%$
 B: $\pm 2\%$

Output Voltage
 100: 1.0V 120: 1.2V 130: 1.3V 150: 1.5V
 180: 1.8V 250: 2.5V 270: 2.7V 280: 2.8V
 285: 2.85V 300: 3.0V 320: 3.2V 330: 3.3V
 500: 5.0V
 ADJ: adjustable

APPLICATIONS

- Portable Communication Equipment
- Battery-Powered Equipment
- Laptop, Palmtops, Notebook Computers
- Hand-Held Instruments
- PCMCIA Cards and Wireless LAN
- Electrical appliances such as cameras, VCRS

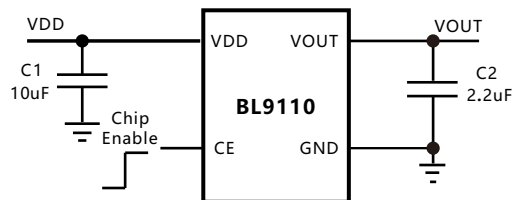
DESCRIPTION

The BL9110 is a low-dropout regulator that operates the input voltage from 2.5V to 6V and delivers 1A load current. The BL9110 is available in two types, either fixed or adjustable output voltage.

The output voltage of the fixed types is preset at an internally trimmed voltage 1V, 1.2V, 1.3V, 1.5V, 1.8V, 2.5V, 2.7V, 2.8V, 2.85V, 3.0V, 3.2V, 3.3V, 5V or can be made with options of the output range from 1V to 5V in 50mV increments. The output range of adjustable types is from 1V to 5V. The BL9110 consists of a voltage reference, an error amplifier, resistor net for setting output voltage, a current limit circuit for over-current and a thermal-shutdown circuit.

A standby mode with ultra low supply current can be realized with the chip enable function. Since the packages for BL9110 are DFN-6, SOT-89-5, SOT-223-5, SOT-223-3, TO-263-3, TO-220-3, SOT-89-3, TO-252-3, TO92-3 and TO-252-5 with high power dissipation, high density mounting of the IC on board is possible.

TYPICAL APPLICATION



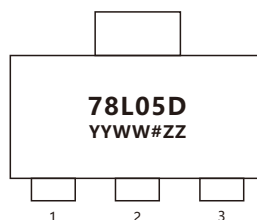
BL78L05D

3-Terminal Positive Voltage Regulators

FEATURES

- Maximum Output Current: 0.1A
- Output Voltage: 5V
- Thermal Overload Protection
- 2% Output Voltage Accuracy
- SOT89-3

PIN CONNECTION



“YY” STANDS FOR THE ASSEMBLY YEAR.

“WW” STANDS FOR THE ASSEMBLY WEEK

“ZZ” STANDS FOR THE ASSEMBLY FACTORY.

Absolute Maximum Ratings (Ta=25°C)

Characteristics	Symbol	Value	Unit
Input Voltage	V_i	42	V
Operating Junction Temperature Range	T_j	-40~+125	°C
Power Dissipation	P_d	TO92	625
		SOT89-3	750
		SOP8	500*
Operating Temperature Range	T_{opr}	-40~+85	°C
Storage Temperature Range	T_{stg}	-40~+150	°C

ELECTRICAL CHARACTERISTICS

(unless otherwise noted, $V_i=10V, I_o=40mA, -30 < T_j < 85^\circ C, C_1=0.33\mu F, C_o=0.1\mu F$) (Note1)

Characteristics	Test conditions	Symbol	Min	Typ.	Max.	Unit
Output Voltage	$T_j=25^\circ C$	V_o	4.9	5	5.1	V
	$7V \leq V_i \leq 20V; I_o=1mA \sim 40mA$		4.8		5.2	V
	$7V \leq V_i \leq V_{max}; I_o=1mA \sim 70mA$		4.8		5.2	V
Load Regulation	$T_j=25^\circ C; I_o=1mA \sim 100mA$	ΔV_o		11	60	mV
	$T_j=25^\circ C; I_o=1mA \sim 40mA$			5	6	mV
Line Regulation	$T_j=25^\circ C; 7V \leq V_i \leq 20V$	ΔV_o		8	150	mV
	$T_j=25^\circ C; 8V \leq V_i \leq 20V$			6	100	mV
Quiescent Current		I_q		3	5.5	mA
Quiescent Current Change	$8V \leq V_i \leq 20V$	ΔI_q			1.5	mA
	$1mA \leq I_o \leq 40mA$				0.2	mA
Output Noise Voltage	$10Hz \leq f \leq 100kHz$	V_N		63		μV
Temperature Coefficient of V_o	$I_o=5mA$	$\Delta V_o/\Delta T$		0.65		mV/°C
Ripple Rejection	$10V \leq V_i \leq 20V; f=120Hz; T_j=25^\circ C$	RR	41	60		dB
Dropout Voltage	$T_j=25^\circ C$	V_d		1.7		V

BL8028

1.5A 2MHz 6V Synchronous Buck Converter

DESCRIPTION

The BL8028 is a high-efficiency, DC to DC step-down switching regulators, capable of delivering up to 1.5A of output current. The device operates from an input voltage range of 2.6V to 6V and provides an output voltage from 0.6V to VIN. Working at a fixed frequency of 2MHz allows the use of small external components, such as ceramic input and output caps, as well as small inductors, while still providing low output ripples. This low noise output along with its excellent efficiency achieved by the internal synchronous rectifier, making BL8028 an ideal replacement for large power consuming linear regulators. Internal soft-start control circuitry reduces inrush current. Short-circuit and thermal shutdown protection improves design reliability.

The BL8028 is available in SOT23-5, DFN2x2-6 package.

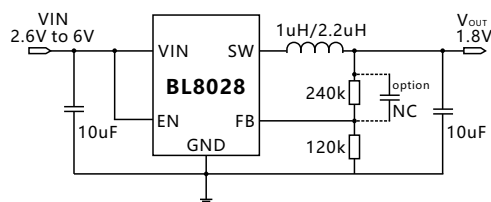
FEATURES

- High efficiency: up to 97%
- Up to 1.5A Max output current
- 2MHz switching frequency
- Low dropout 100% duty operation
- Internal compensation and soft-start
- Current mode control
- Reference 0.6V
- Logic control shutdown (IQ < 1 uA)
- Thermal shutdown, UVLO
- Available in SOT23-5, DFN2x2-6

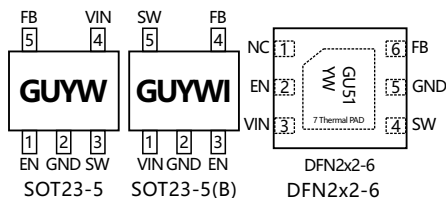
APPLICATIONS

- Cellular phones
- Digital cameras
- MP3 and MP4 players
- Set top boxes
- Wireless and DSL modems
- USB supplied devices in notebooks
- Portable devices

TYPICAL APPLICATION



PIN OUT & MARKING



GU/GU51: Product code
YW: Date code (Year & Week)

BL8033

500KHz, 16V, 3A Synchronous Step-Down Converter

DESCRIPTION

The BL8033 is a fully integrated, high-efficiency 3A synchronous rectified step-down converter. The BL8033 operates at high efficiency over a wide output current load range.

This device offers two operation modes, PWM control and PFM Mode switching control, which allows a high efficiency over the wider range of the load.

The BL8033 requires a minimum number of readily available standard external components and is available in SOT23-6 package.

- 0.8V reference
- Slope compensated current mode control for excellent line and load transient response
- Integrated internal compensation
- Stable with low ESR ceramic output capacitors
- Over current protection with hiccup-mode
- Over temperature protection
- Inrush current limit and soft start
- Available in SOT23-6
- 40°C to +85°C temperature range

FEATURES

- High efficiency: up to 96%
- 500KHz frequency operation
- Up to 3A output current
- No schottky diode required
- 4.5V to 16V input voltage range

APPLICATIONS

- Distributed power systems
- Digital set top boxes
- Flat panel television and monitors
- Wireless and DSL modems
- Notebook computer

TYPICAL APPLICATION

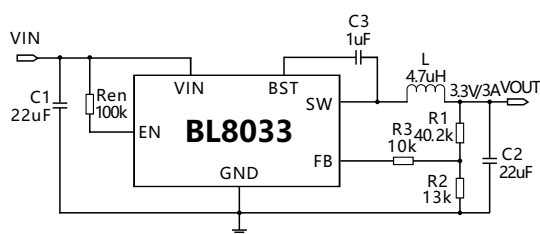


Figure1.

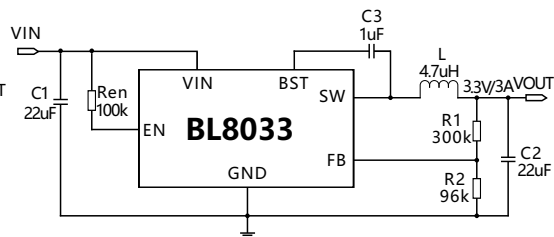


Figure2.

NOTE:

- 1) C1 and C2 recommended using 22µF ceramic capacitors. If the electrolytic capacitor is used, it is recommended that the ceramic capacitor in parallel with a capacitance value of 0.1µF or more.
- 2) The resistance R3 in Figure 1 makes the loop more stable. If it isn't used, the resistance R1、R2 should be adjusted(See Figure2.). The value of R1 is recommended to be about 300kΩ.

BL8032

500KHz, 18V, 2A Synchronous Step-Down Converter

DESCRIPTION

The BL8032 is a fully integrated, high-efficiency 2A synchronous rectified step-down converter. The BL8032 operates at high efficiency over a wide output current load range.

This device offers two operation modes, PWM control and PFM Mode switching control, which allows a high efficiency over the wider range of the load.

The BL8032 requires a minimum number of readily available standard external components and is available in a 6-pin SOT23 ROHS compliant package.

- 0.8V Reference
- Slope Compensated Current Mode Control for Excellent Line and Load Transient Response
- Integrated internal compensation
- Stable with Low ESR Ceramic Output Capacitors
- Over Current Protection with Hiccup-Mode
- Thermal Shutdown
- Inrush Current Limit and Soft Start
- Available in SOT23-6
- 40°C to +85°C Temperature Range

FEATURES

- High Efficiency: Up to 96%
- 500KHz Frequency Operation
- 2A Output Current
- No Schottky Diode Required
- 4.2V to 18V Input Voltage Range

APPLICATIONS

- Distributed Power Systems
- Digital Set Top Boxes
- Flat Panel Television and Monitors
- Wireless and DSL Modems
- Notebook Computer

TYPICAL APPLICATION

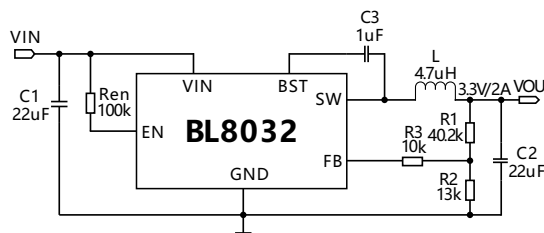


Figure1.

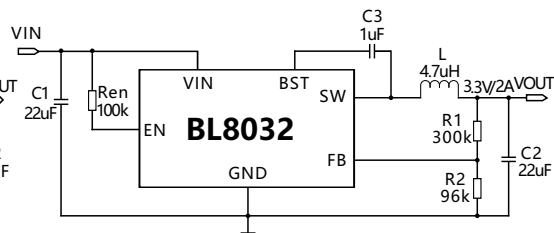


Figure2.

NOTE:

- 1) C1 and C2 recommended using 22uF ceramic capacitors. If the electrolytic capacitor is used, it is recommended that the ceramic capacitor in parallel with a capacitance value of 0.1uF or more.
- 2) The resistance R3 in Figure 1 makes the loop more stable. If it isn't used, the resistance R1 R2 should be adjusted(See Figure2.). The value of R1 is recommended to be about 300kΩ.
- 3) C3 can be valued as 1uF, 0.1uF.

BL8023K

400mA Bi-Direction Relay Driver

DESCRIPTION

BL8023K is a bi-direction relay driver circuit, used to control the magnetic latching relay, with large output capability, ultra-low power consumption. It can be widely used in smart meters and other pulses, level control applications.

BL8023K can provide 400mA typical driving current, which will different according to the relay coil resistance. The input High Level Threshold of BL8023K is 2V; it can compatible with most single chip microcontroller.

BL8023K is available in SOT23-6 package.

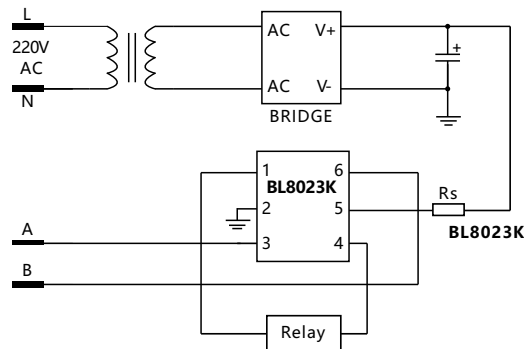
FEATURES

- 5 to 40V input voltage range
- Low power consumption ($I_Q < 1\mu A$)
- Input high level threshold: 2V, compatible with most single chip microcontroller
- Typical driving current: 400mA
 $R_{DS(ON)} = 7\text{ohm}(V_{IN} = 12V, \text{PMOSFET} + \text{NMOSFET})$
 $R_{DS(ON)} = 7\text{ohm}(V_{IN} = 30V, \text{PMOSFET} + \text{NMOSFET})$
- Peak driving current: 500mA@ $V_{IN} = 24V$
- Environment temperature: $-40C \sim 85C$
- SOT23-6 package

APPLICATIONS

- Smart Meter

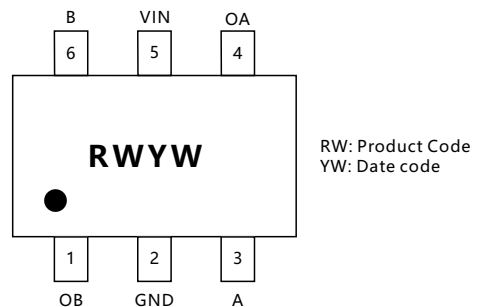
TYPICAL APPLICATION



ORDERING INFORMATION

Part No.	Package	Tape & Reel
BL8023KCB6TR	SOT23-6	3000/Reel

PIN OUT & MARKING



SOT23-6

BLM12P03

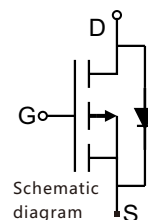
30V P-Channel Power MOSFET

DESCRIPTION

The BLM12P03 uses advanced trench technology to provide excellent $R_{DS(ON)}$, low gate charge and operation with gate voltages as low as 4.5V.

APPLICATION

- Battery Switch
- Load Switch
- Power Management



KEY CHARACTERISTICS

- $V_{DS} = -30V, I_D = -20A$
- $R_{DS(ON)} < 25m\Omega @ V_{GS} = -4.5V$
- $R_{DS(ON)} < 15m\Omega @ V_{GS} = -10V$
- High Power and current handling capability
- Lead free product is acquired
- Surface Mount Package

PACKAGE MARKING AND ORDERING INFORMATION

Device Marking	Ordering Codes	Package	Product Code	Packing
M12P03	BLM12P03-R	PDFN 3.3x3.3	BLM12P03	Reel

ABSOLUTE MAXIMUM RATINGS (TA = 25°C UNLESS OTHERWISE NOTED)

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	V_{DS}	-30	V
Gate-Source Voltage	V_{GS}	±20	V
Drain Current-Continuous	I_D	-20	A
Drain Current-Pulsed	I_{DM}	-80	A
Maximum Power Dissipation (Tc=25°C)	P_D	10.6	W
Maximum Power Dissipation (Tc=100°C)		6.4	
Single Pulse Avalanche Energy	E_{AS}	171	mJ
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 To 150	°C

THERMAL CHARACTERISTIC

Thermal Resistance Junction-to-Case	$R_{\theta JC}$	11.8	°C/W
Thermal Resistance Junction-to-Ambient	$R_{\theta JA}$	40	°C/W

BLM10P03

30V P-Channel Power MOSFET

DESCRIPTION

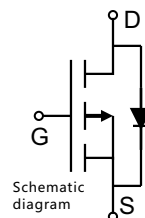
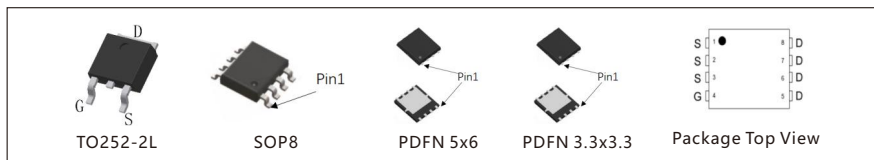
The BLM10P03 uses advanced trench technology to provide excellent $R_{DS(ON)}$, low gate charge. It can be used in a wide variety of applications.

APPLICATION

- Power switching application
- Hard switched and High frequency circuits
- Battery Protection

KEY CHARACTERISTICS

- $V_{DS} = -30V, I_D = -24A$ (PDFN3.3x3.3)
- $I_D = -30A$ (PDFN5x6)
- $I_D = -15A$ (SOP8)
- $I_D = -40A$ (TO252)
- $R_{DS(ON)} < 9m\Omega @ V_{GS} = -10V$
- $R_{DS(ON)} < 12m\Omega @ V_{GS} = -4.5V$
- High density cell design for lower R_{dson}
- Excellent package for good heat dissipation



PACKAGE MARKING AND ORDERING INFORMATION

Device Marking	Ordering Codes	Package	Product Code	Packing
M10P03	BLM10P03-D	TO252-2L	BLM10P03	Tape Reel
M10P03	BLM10P03-R	PDFN3.3x3.3	BLM10P03	Tape Reel
M10P03	BLM10P03-E	SOP8	BLM10P03	Tape Reel
M10P03	BLM10P03-Q	PDFN5x6	BLM10P03	Tape Reel

ABSOLUTE MAXIMUM RATINGS (TA = 25°C UNLESS OTHERWISE NOTED)

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	V_{DS}	-30	V
Gate-Source Voltage	V_{GS}	± 20	V
Drain Current-Continuous	I_D (PDFN3.3x3.3)	-24	A
	I_D (PDFN5x6)	-30	A
	I_D (SOP8)	-15	A
	I_D (TO252)	-40	A
Drain Current-Pulsed	I_{DM} (PDFN3.3x3.3)	-96	A
	I_{DM} (PDFN5x6)	-120	A
	I_{DM} (SOP8)	-60	A
	I_{DM} (TO252)	-160	A
Maximum Power Dissipation (Tc=25°C)	P_D (PDFN3.3x3.3)	8.4	W
	P_D (PDFN5x6)	13	W
	P_D (SOP8)	3.3	W
	P_D (TO252)	23.2	W
Operating Junction and Storage Temperature Range	T_j, T_{STG}	-55 To 150	°C

BLM08N06

60V N-Channel Power MOSFET

DESCRIPTION

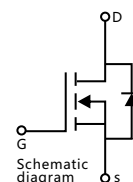
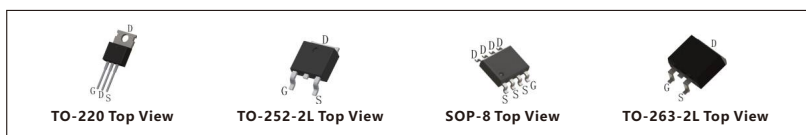
The BLM08N06 uses advanced trench technology to provide excellent RDS(ON), low gate charge. It can be used in a wide variety of applications.

APPLICATION

- Power switching application
- Hard switched and High frequency circuits
- Uninterruptible power supply

KEY CHARACTERISTICS

- $V_{DS} = 60V, I_D = 80A$ (TO-220/252); $I_D = 12A$ (SOP-8)
 - $R_{DS(ON)} < 8.0m\Omega @ V_{GS} = 10V$ (TO-220/ 252/263)
 - $R_{DS(ON)} < 10.0m\Omega @ V_{GS} = 10V$ (SOP-8)
 - Special process technology for high ESD capability
 - High density cell design for lower Rdson
 - Fully characterized avalanche voltage and current
 - Good stability and uniformity with high EAS
 - Excellent package for good heat dissipation
- 100% UIS TESTED!
100% DVDS TESTED!



PACKAGE MARKING AND ORDERING INFORMATION

Device Marking	Ordering Codes	Package	Product Code	Packing
M08N06	BLM08N06-P	TO-220	BLM08N06	Tube
M08N06	BLM08N06-D	TO-252-2L	BLM08N06	Tape Reel
M08N06	BLM08N06-E	SOP-8	BLM08N06	Tape Reel
M08N06	BLM08N06-B	TO-263-2L	BLM08N06	Tape Reel

ABSOLUTE MAXIMUM RATINGS (TA=25°C UNLESS OTHERWISE NOTED)

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	±20	V
Drain Current-Continuous	I_D (TO-220/252/263)	80	A
	I_D (SOP-8)	12	A
Drain Current-Pulsed ^(Note 1)	I_{DM} (TO-220/252/263)	320	A
	I_{DM} (SOP-8)	120	A
Maximum Power Dissipation(Tc=25°C)	P_D (TO-220/252/263)	110	W
	P_D (SOP-8)	3	W
Single pulse avalanche energy ^(Note 2)	E_{AS}	390	mJ
Operating Junction and Storage Temperature Range	T_J, T_{STG} (TO-220/252/263)	-55 To 175	°C
Operating Junction and Storage Temperature Range	T_J, T_{STG} (SOP-8)	-55 To 150	°C

BLM06N08

800V N-Channel Power MOSFET

DESCRIPTION

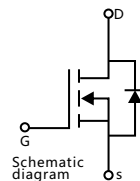
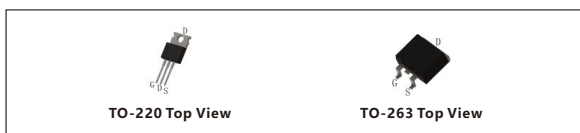
The BLM06N08 uses advanced trench technology to provide excellent $R_{DS(ON)}$, low gate charge. It can be used in a wide variety of applications.

APPLICATION

- Power switching application
- Hard switched and High frequency circuits
- Uninterruptible power supply

KEY CHARACTERISTICS

- $V_{DS} = 80V, I_D = 140A$
 $R_{DS(ON)} < 6.0m\Omega @ V_{GS} = 10V$
 - High density cell design for lower R_{dson}
 - Fully characterized avalanche voltage and current
 - Good stability and uniformity with high EAS
 - Excellent package for good heat dissipation
- 100% UIS TESTED!
100% DVDS TESTED!



PACKAGE MARKING AND ORDERING INFORMATION

Device Marking	Ordering Codes	Package	Product Code	Packing
M06N08	BLM06N08-P	TO-220	BLM06N08	Tube
M06N08	BLM06N08-B	TO-263	BLM06N08	Reel

ABSOLUTE MAXIMUM RATINGS (TA=25°C UNLESS OTHERWISE NOTED)

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	V_{DS}	80	V
Gate-Source Voltage	V_{GS}	± 20	V
Drain Current-Continuous	I_D	140	A
Drain Current-Pulsed ^(Note 1)	I_{DM}	560	A
Maximum Power Dissipation ($T_C = 25^\circ C$)	P_D	220	W
Single pulse avalanche energy ^(Note 2)	E_{AS}	1450	mJ
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 To 175	$^\circ C$

THERMAL CHARACTERISTIC

Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	0.63	$^\circ C/W$
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BLM06N10

100V N-Channel Power MOSFET

DESCRIPTION

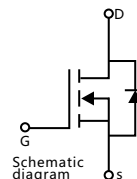
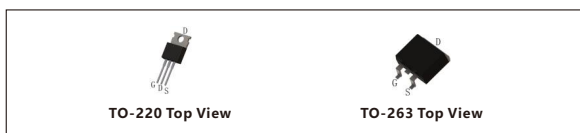
The BLM06N10 uses advanced trench technology to provide excellent RDS(ON), low gate charge. It can be used in a wide variety of applications.

APPLICATION

- Power switching application
- Hard switched and High frequency circuits
- Uninterruptible power supply

KEY CHARACTERISTICS

- $V_{DS} = 100V, I_D = 180A$
 $R_{DS(ON)} < 6.0m\Omega @ V_{GS} = 10V$
 - Special process technology for high ESD capability
 - High density cell design for lower Rdson
 - Fully characterized avalanche voltage and current
 - Good stability and uniformity with high EAS
 - Excellent package for good heat dissipation
- 100% UIS TESTED!
100% DVDS TESTED!



PACKAGE MARKING AND ORDERING INFORMATION

Device Marking	Ordering Codes	Package	Product Code	Packing
M06N10	BLM06N10-P	TO-220	BLM06N10	Tube
M06N10	BLM06N10-B	TO-263	BLM06N10	Reel

ABSOLUTE MAXIMUM RATINGS (TA=25°C UNLESS OTHERWISE NOTED)

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	V_{DS}	100	V
Gate-Source Voltage	V_{GS}	± 20	V
Drain Current-Continuous	I_D	330	A
Drain Current-Pulsed ^(Note 1)	I_{DM}	720	A
Maximum Power Dissipation(Tc=25°C)	P_D	211	W
Single pulse avalanche energy ^(Note 2)	E_{AS}	1200	mJ
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 To 175	°C

THERMAL CHARACTERISTIC

Thermal Resistance,Junction-to-Case	$R_{\theta JC}$	0.36	°C/W
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BLP05N08G

85V N-Channel Power MOSFET

DESCRIPTION

BLP05N08G, the N-channel Enhanced Power MOSFETs, is obtained by advanced double trench technology which reduce the conduction loss, improve switching performance and enhance the avalanche energy. This is suitable device for motor drivers and high speed switching applications.

KEY CHARACTERISTICS

Parameter	Value	Unit
V _{DSS}	85	V
I _o	120	A
R _{DS(on),typ}	4.4	mΩ

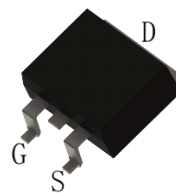
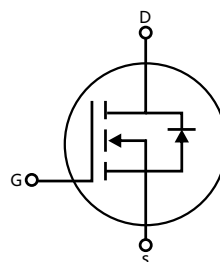
FEATURES

- Fast Switching
- Low On-Resistance ($R_{DS(on)} \leq 5m\Omega$)
- Low Gate Charge
- Low Reverse transfer capacitances
- High avalanche ruggedness
- RoHS product

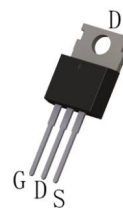
APPLICATIONS

- Switching applications
- Motor drivers

Inner Equivalent Principium Chart



TO-263



TO-220

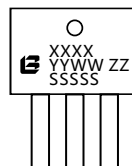
ORDERING INFORMATION

Ordering Codes	Package	Product Code	Packing
BLP05N08G-B	TO-263	P05N08G	Reel
BLP05N08G-P	TO-220	P05N08G	Tube

BLP05N08G-B

- (1) BLP05N08G: 5mΩ/85V
(2) B: TO-263
P: TO-220

(2) Package type
(1) Chip name



XXXX: Product Code
YYWW: Year&Week
ZZ: Assembly Code
SSSS: Lot Code

BLP065N08G

85V N-Channel Power MOSFET

DESCRIPTION

BLP065N08G, the N-channel Enhanced Power MOSFETs, is obtained by advanced double trench technology which reduce the conduction loss, improve switching performance and enhance the avalanche energy. This is suitable device for motor drivers and high speed switching applications.

KEY CHARACTERISTICS

Parameter	Value	Unit
V _{DSS}	85	V
I _o	80	A
R _{DS(on), typ}	5.4	mΩ

FEATURES

- Fast Switching
- Low On-Resistance (R_{DS(on)}≤6.5mΩ)
- Low Gate Charge
- Low Reverse transfer capacitances
- High avalanche ruggedness
- RoHS product

APPLICATIONS

- Switching applications
- Motor drivers

ORDERING INFORMATION

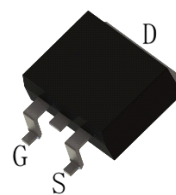
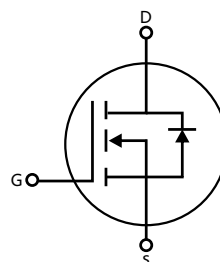
Ordering Codes	Package	Product Code	Packing
BLP065N08G-B	TO-263	P065N08G	Reel
BLP065N08G-P	TO-220	P065N08G	Tube

BLP065N08G-B

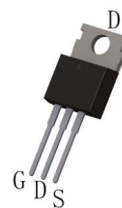
- (1) BLP065N08G: 6.5mΩ/85V
(2) B: TO-263
P: TO-220

(2) Package type
(1) Chip name

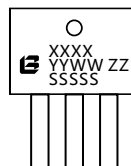
Inner Equivalent Principium Chart



TO-263



TO-220



XXXX: Product Code
YYWW: Year&Week
ZZ: Assembly Code
SSSS: Lot Code

BLP150N10

100V N-Channel Power MOSFET

DESCRIPTION

BLP150N10, the N-channel Enhanced Power MOSFETs, is obtained by advanced double trench technology which reduce the conduction loss, improve switching performance and enhance the avalanche energy. This is suitable device for motor drivers and high speed switching applications.

KEY CHARACTERISTICS

Parameter	Value	Unit
V _{DSS}	100	V
I _o	120	A
R _{DS(on),typ}	3.6	mΩ

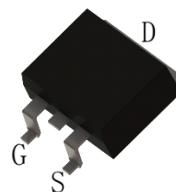
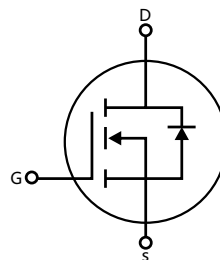
FEATURES

- Fast Switching
- Low On-Resistance (R_{DS(on)}≤4.2mΩ)
- Low Gate Charge
- Low Reverse transfer capacitances
- High avalanche ruggedness
- RoHS product

APPLICATIONS

- Switching applications
- Motor drivers

Inner Equivalent Principium Chart



TO-263



TO-220

1.Gate 2.Drain 3.Source

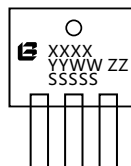
ORDERING INFORMATION

Ordering Codes	Package	Product Code	Packing
BLP150N10-B	TO-263	P150N10	Reel
BLP150N10-P	TO-220	P150N10	Tube

BLP150N10-B

- (1) BLP150N10: 100V/150A
(2) B: TO-263
P: TO-220

(2) Package type
(1) Chip name



XXXX: Product Code
YYWW: Year&Week
ZZ: Assembly Code
SSSSS: Lot Code

BL4N80

800V N-Channel Power MOSFET

DESCRIPTION

BL4N80, the silicon N-channel Enhanced MOSFETs, is obtained by advanced MOSFET technology which reduce the conduction loss, improve switching performance and enhance the avalanche energy. The transistor is suitable device for SMPS, high speed switching and general purpose applications.

KEY CHARACTERISTICS

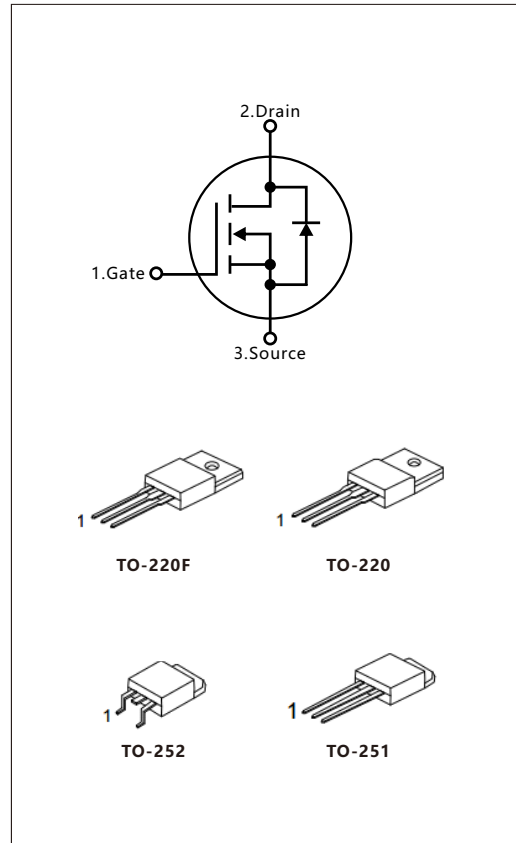
Parameter	Value	Unit
$V_{DS@T_J, max}$	800	V
I_D	4.3	A
$R_{DS(ON), typ}$	2.3	Ω

FEATURES

- Fast Switching
- 100% avalanche tested
- Improved dv/dt capability
- RoHS product

APPLICATIONS

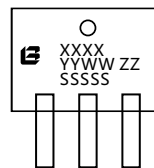
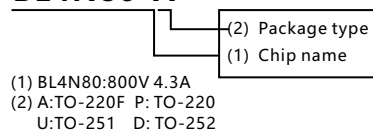
- High frequency switching mode power supply



ORDERING INFORMATION

Ordering Codes	Package	Product Code	Packing
BL4N80-P	TO-220	4N80	Tube
BL4N80-A	TO-220F		Tube
BL4N80-U	TO-251		Tube
BL4N80-D	TO-252		Tape Reel

BL4N80-A



XXXX: Product Code
 YYWW: Year&Week
 ZZ: Assembly Code
 SSSS: Lot Code

BL3N90E

900V N-Channel Power MOSFET

DESCRIPTION

BL3N90E, the silicon N-channel Enhanced MOSFETs, is obtained by advanced MOSFET technology which reduce the conduction loss, improve switching performance and enhance the avalanche energy. The transistor is suitable device for SMPS, high speed switching and general purpose applications.

KEY CHARACTERISTICS

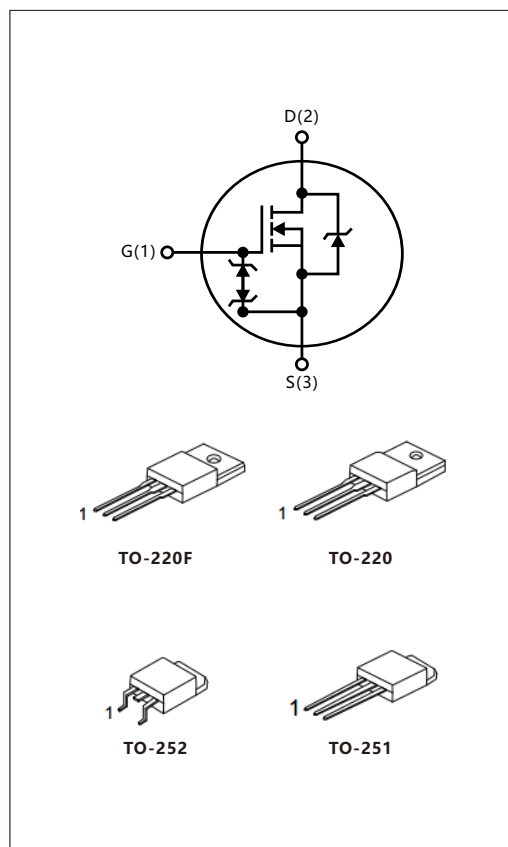
Parameter	Value	Unit
$V_{DS@T_j, max}$	900	V
I_o	3	A
$R_{DS(ON), typ}$	4.8	Ω

FEATURES

- Fast Switching
- Low Crss
- 100% avalanche tested
- Improved dv/dt capability
- Zener - Protected
- RoHS product

APPLICATIONS

- High frequency switching mode power supply



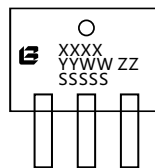
ORDERING INFORMATION

Ordering Codes	Package	Product Code	Packing
BL3N90E-P	TO-220	3N90E	Tube
BL3N90E-A	TO-220F		Tube
BL3N90E-U	TO-251		Tube
BL3N90E-D	TO-252		Tape Reel

BL3N90E-A

- (1) BL3N90E: 900V 3A
(2) A:TO-220F P: TO-220
U:TO-251 D: TO-252

(2) Package type
(1) Chip name



XXXX: Product Code
YYWW: Year&Week
ZZ: Assembly Code
SSSS: Lot Code

BL3N100E

1000V N-Channel Power MOSFET

DESCRIPTION

BL3N100E, the silicon N-channel Enhanced MOSFETs, is obtained by advanced MOSFET technology which reduce the conduction loss, improve switching performance and enhance the avalanche energy. The transistor is suitable device for SMPS, high speed switching and general purpose applications.

KEY CHARACTERISTICS

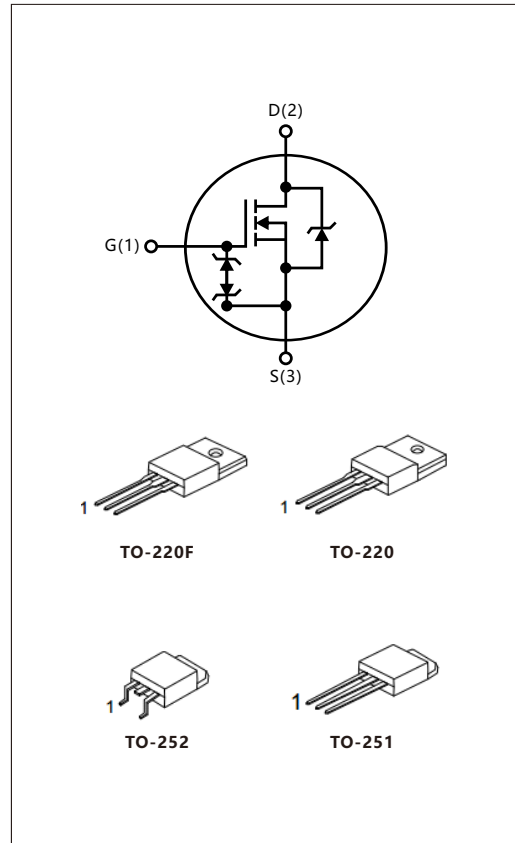
Parameter	Value	Unit
$V_{DS@T_j, max}$	1000	V
I_D	2.5	A
$R_{DS(ON), typ}$	6.2	Ω

FEATURES

- Fast Switching
- Low Crss
- 100% avalanche tested
- Improved dv/dt capability
- Zener - Protected
- RoHS product

APPLICATIONS

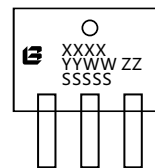
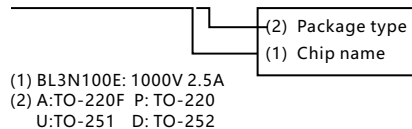
- High frequency switching mode power supply



ORDERING INFORMATION

Ordering Codes	Package	Product Code	Packing
BL3N100E-P	TO-220	3N100E	Tube
BL3N100E-A	TO-220F		Tube
BL3N100E-U	TO-251		Tube
BL3N100E-D	TO-252		Tape Reel

BL3N100E-A



XXXX: Product Code
YYWW: Year&Week
ZZ: Assembly Code
SSSS: Lot Code

BL6N120

1200V N-Channel Power MOSFET

DESCRIPTION

BL6N120, the silicon N-channel Enhanced MOSFETs, is obtained by advanced MOSFET technology which reduce the conduction loss, improve switching performance and enhance the avalanche energy. The transistor is suitable device for SMPS, high speed switching and general-purpose applications.

KEY CHARACTERISTICS

Parameter	Value	Unit
$V_{DS@T_j, max}$	1300	V
I_o	6	A
$R_{DS(on), typ}$	2.3	Ω

FEATURES

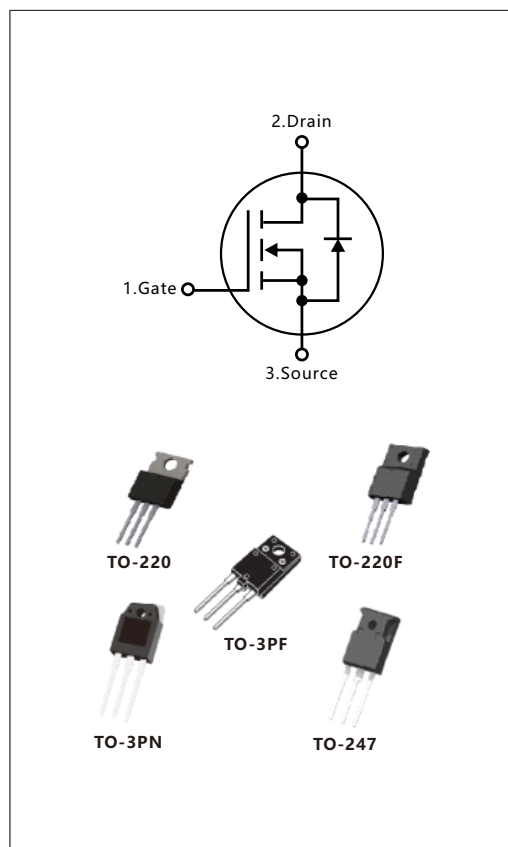
- Fast Switching
- Low Crss
- 100% avalanche tested
- Improved dv/dt capability
- RoHS product

APPLICATIONS

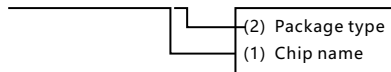
- High frequency switching mode power supply

ORDERING INFORMATION

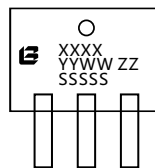
Ordering Codes	Package	Product Code	Packing
BL6N120-P	TO-220	6N120	Tube
BL6N120-A	TO-220F		Tube
BL6N120-W	TO-3PN		Tube
BL6N120-K	TO-3PF		Tube
BL6N120-F	TO-247		Tube



BL6N120-A



- (1) BL6N120: 1200V 6A
 (2) A:TO-220F P: TO-220
 W:TO-3PN K:TO-3PF F:TO-247



- XXXX: Product Code
 YYWW: Year&Week
 ZZ: Assembly Code
 SSSS: Lot Code

BL4N150

1500V N-Channel Power MOSFET

DESCRIPTION

BL4N150, the silicon N-channel Enhanced MOSFETs, is obtained by advanced MOSFET technology which reduce the conduction loss, improve switching performance and enhance the avalanche energy. The transistor is suitable device for SMPS, high speed switching and general purpose applications.

KEY CHARACTERISTICS

Parameter	Value	Unit
$V_{DS@T_j, max}$	1500	V
I_D	4	A
$R_{DS(ON), typ}$	4.0	Ω

FEATURES

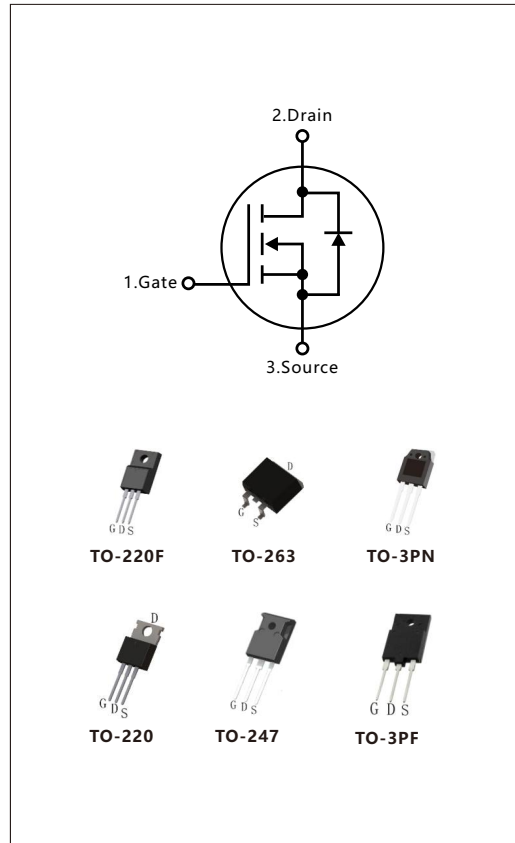
- Fast Switching
- Low Crss
- 100% avalanche tested
- Improved dv/dt capability
- RoHS product

APPLICATIONS

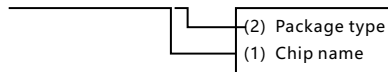
- High frequency switching mode power supply

ORDERING INFORMATION

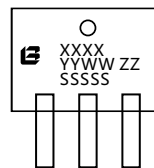
Ordering Codes	Package	Product Code	Packing
BL4N150-P	TO-220	4N150	Tube
BL4N150-A	TO-220F		Tube
BL4N150-W	TO-3PN		Tube
BL4N150-K	TO-3PF		Tube
BL4N150-F	TO-247		Tube
BL4N150-B	TO-263		Reel



BL4N150-A



- (1) BL4N150: 1500V 4A
 (2) A:TO-220F P: TO-220 W:TO-3PN
 K:TO-3PF F: TO-247 B: TO-263



- XXXX: Product Code
 YYWW: Year&Week
 ZZ: Assembly Code
 SSSS: Lot Code

低噪声、超高PSRR 线性稳压器—ME6301

概述

ME6301是一款能够提供250mA输出电流的低噪声、超高PSRR线性稳压器。与1 μ F输入和1 μ F输出陶瓷电容搭配，无需噪声旁路电容便可提供出色的噪声性能，更能节省空间。该器件不仅适用于对噪声敏感的应用，例如高性能模拟电路，而且还适用于各种应用。通过控制芯片上的CE脚可将输出关断，可实现关断后功耗0 μ A，集成软启动、温度保护与限流保护。

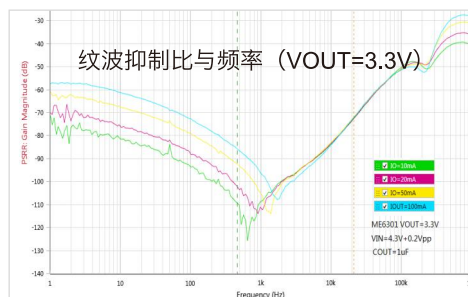
特性

- 高纹波抑制比：98dB@1KHz (IOUT=20mA)
- 低噪声：10 μ V_{RMS}
- 工作电压范围：1.9V~5.5V
- 输出电压范围：1.8V~5.0V
- 最大输出电流：250mA (TYP.)
- 低压差：130mV@ IOUT =250mA
- 高输出精度： \pm 1%
- 低静态电流：18 μ A (TYP.)
- 关断电流：0 μ A (TYP.)
- 内置温度保护和限流保护
- 封装形式：FBP1*1-4小型封装

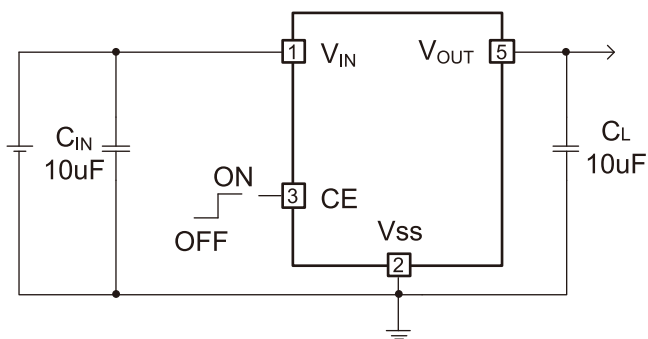
用途

- 手机
- PAD手持终端
- 电池供电设备
- R射频产品
- 相机、录像机、机顶盒

特性曲线



应用方案



0.6uA超低功耗，快速响应，300mA线性稳压器—ME6226

概述

ME6226是一系列超低静态功耗，快速响应，带载300mA的线性稳压器。工作消耗静态电流约0.6uA，压降状态依然保持较小的静态功耗，使能关断后功耗小于0.01uA，内置使能控制，限流保护电路以及温度保护，并具有使能控制输出电容自动放电功能。

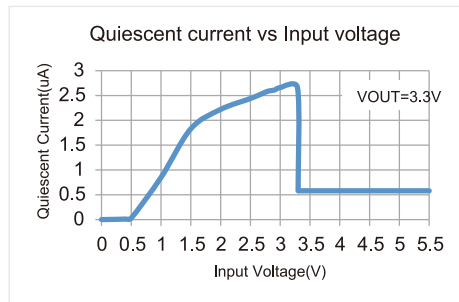
特性

- 低功耗：0.6uA (TYP.)
- 压降状态静态功耗限制
- 出色的负载瞬态响应 (1mA-300mA) 90mV下冲
- 输入电压范围：2.0 -5.5V
- 输出电压范围：1.0-3.6V (步进0.1V)
- 输出精度：±1%
- 输入输出电压差：110mV@ IOUT=100mA (3.3V)
- 输出电流：300mA (VOUT=3.3V)
- 过流保护：550mA
- 温度保护：TSD=150°C
- 封装形式：SOT23-5

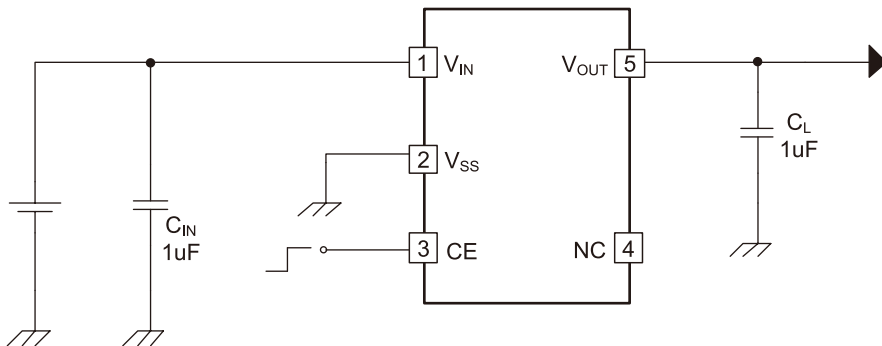
用途

- 便携式充电器、移动电源
- 便携设备、可穿戴配件
- IPAD、笔记本电脑、智能手机

特性曲线



应用方案



1.8uA低功耗、高PSRR、低压差大电流线性稳压器—ME6230

概述

ME6230是一系列低静态功耗、高PSRR、低压差LDO线性稳压器。工作消耗静态电流约1.8uA，高纹波抑制PSRR=70dB (@1kHz)；使能关断后功耗为0，内置使能控制，限流保护电路以及温度保护，并具有使能控制输出电容自动放电功能。

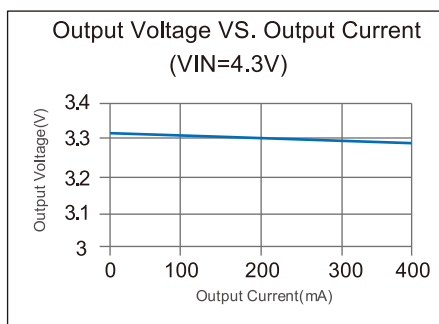
特性

- 低功耗：1.8uA (TYP.)
- PSRR：70dB @1kHz
- 输入电压范围：1.5-5.5V
- 输出电压范围：1.2-5V (步进0.1V)
- 输出精度：±1%
- 输入输出电压差：110mV@ IOUT =100mA (3.3V)
- 输出电流：400mA (VOUT=3.3V)
- 过流保护：510mA
- 温度保护：TSD=150°C
- 封装形式：SOT89-3、SOT23-3、FBP1*1-4L、SOT23-5、SOT353

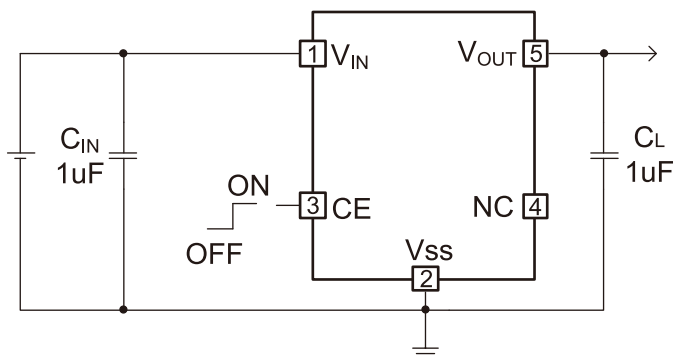
用途

- 便携式充电器、移动电源
- 数码相机、GPS、无线收发器
- IPAD、笔记本电脑、智能手机、便携设备

特性曲线



应用方案



18V耐压、低功耗、高PSRR、高精度线性稳压器—ME6231

概述

ME6231是18V耐压、低静态功耗、高PSRR、低压差LDO线性稳压器。工作消耗静态电流约1.8uA，高纹波抑制PSRR=65dB (@1kHz)；使能关断后功耗为0 (TYP.)，内置使能控制，限流保护电路以及温度保护，并具有使能控制输出电容自动放电功能。

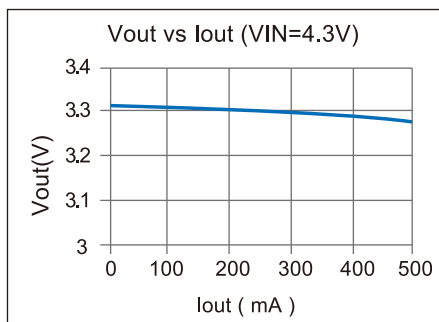
特性

- 低功耗：1.8uA (TYP.)
- PSRR：65dB @1kHz
- 输入电压范围：3-18V
- 输出电压范围：1.6-5V
- 输出精度：±1%
- 输入输出电压差：125mV@ IOUT =100mA (3.3V)
- 输出电流：500mA (3.3V)
- 过流保护：780mA
- 温度保护：TSD=165°C
- 封装形式：SOT89-3、SOT23-3、DFN1.2*1.6-4、SOT23-5

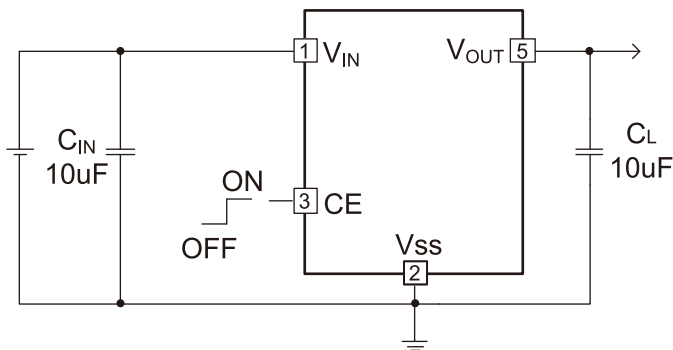
用途

- 便携式充电器、移动电源
- 数码相机、GPS、无线收发器
- IPAD、笔记本电脑、智能手机、便携设备

特性曲线



应用方案



40V耐压、低功耗、高PSRR、高精度线性稳压器—ME6233

概述

ME6233是40V耐压、低静态功耗、高PSRR、低压差LDO线性稳压器。工作消耗静态电流约3.5uA，高电源纹波抑制PSRR=61dB (@1kHz)；使能关断后功耗为0.4u (TYP.)，内置使能控制，限流保护电路以及温度保护，并具有使能控制输出电容自动放电功能。

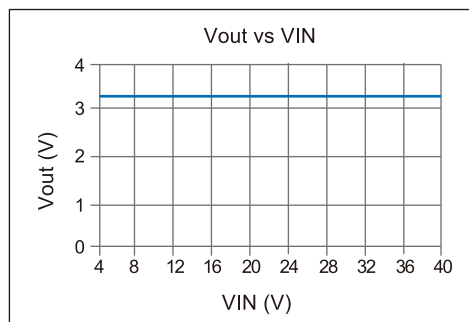
特性

- 低功耗：3.5uA (TYP.)
- PSRR：61dB @1kHz
- 输入电压范围：4.5-40V
- 输出电压范围：1.6-12V
- 输出精度：±1%
- 输入输出电压差：1300mV@ IO_{UT} =100mA(3.3V)
- 输出电流：100mA (3.3V)
- 过流保护：211mA
- 温度保护：TSD=151°C
- 封装形式：SOT89-3、SOT23-3、SOT23-5

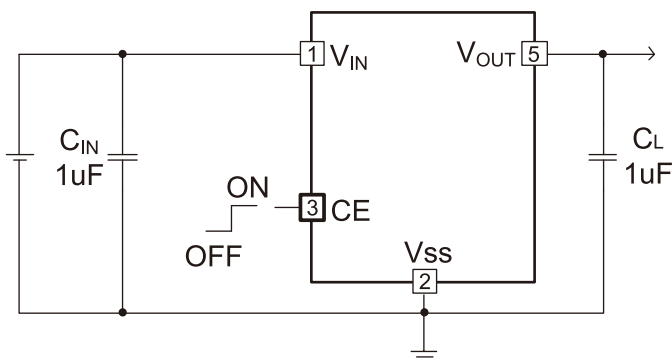
用途

- 便携式设备
- 通讯设备
- 音频及视频设备

特性曲线



应用方案



60V耐压、低功耗、高精度线性稳压器—ME6261

概述

ME6261是60V耐压、低静态功耗、高PSRR、低压差LDO线性稳压器。工作消耗静态电流5uA，高电源纹波抑制；使能关断后功耗为0.5u (TYP.)，内置使能控制，限流保护电路以及温度保护，并具有使能控制输出电容自动放电功能。

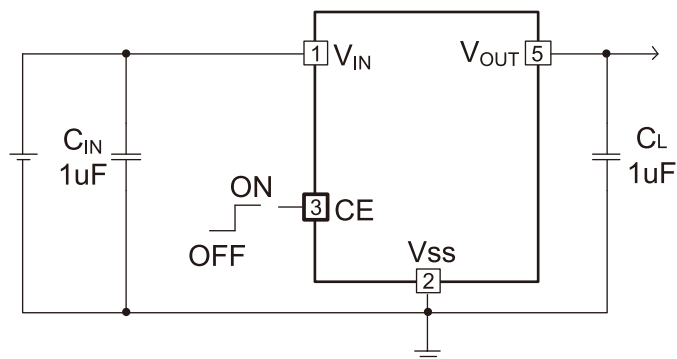
特性

- 低功耗：<5uA (TYP.)
- PSRR：60dB@1kHz
- 输入电压范围：3-60V
- 输出电压范围：1.5-12V
- 输出精度：±1%
- 输入输出电压差：1.3V@ IO_{UT} =100mA(3.3V)
- 输出电流：100mA (3.3V)
- 过流保护：300mA
- 温度保护：TSD=150°C
- 封装形式：SOT89-3、SOT23-3、SOT23-5

用途

- 便携式设备
- 通讯设备
- 音频及视频设备

应用方案



COT控制、快速响应、2A同步降压DC-DC转换器—ME3108

概述

ME3108是一款高效率，易使用，COT控制架构的同步降压整流DC/DC转换器，输入电压范围从2.8V到5.5V，输出电压外部设置，驱动2A输出电流。

采用电压模恒定导通时间(COT)控制架构通过内部优化补偿可以实现超快速负载瞬态响应功能。不同型号的芯片，工作模式不同。主要分别是：PFM/PWM自动切换模式；以及用户自主选择工作模式。在自动切换模式下，重载时工作在恒定振荡频率1.2MHz，而在轻载时工作在断续模式，从而在全负载范围内实现高效率特点。

ME3108具有丰富的保护电路来确保系统的正常安全工作。比如输入欠压保护，过流保护，短路保护和过温保护等。

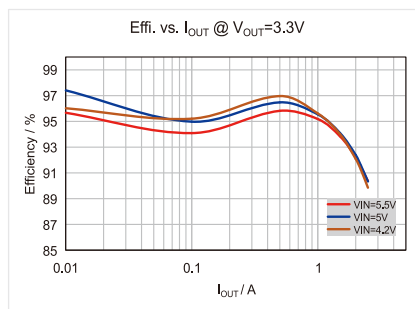
用途

- 蓝牙、游戏手柄、点负载电源 (POL)
- 数码相机、GPS
- 移动电话、智能手机、便携设备

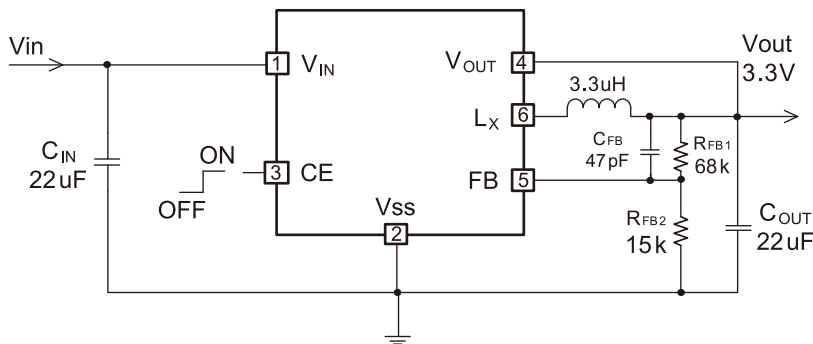
特性

- 输入电压范围：2.8V~5.5V
- 输出电压范围：0.8V~3.6V ($\pm 2\%$)
- 强负载：2A (@VIN=5V, VOUT=3.3V)
最大带载可达2.5A
- 振荡器频率：1.2MHz
- 高效率：最高可达97%
- 控制方法：COT控制、100%占空比、
强制PWM或者PWM/PFM自动切换
- 保护：过温保护、短路保护、限流保护
- 功能：软启动、UVLO、CL快速放电
- 工作环境温度：-40°C~+105°C
- 封装形式：SOT23-5、SOT23-6

特性曲线



应用方案



COT控制、快速响应、3A同步降压DC-DC转换器—ME3109

概述

ME3109是一款高效率，易使用，COT控制架构的同步降压整流DC/DC转换器，输入电压范围从2.8V到5.5V，输出电压外部设置，驱动3A输出电流。

采用电压模恒定导通时间(COT)控制架构通过内部优化补偿可以实现超快速负载瞬态响应功能。不同型号的芯片，工作模式不同。主要分别是：PFM/PWM自动切换模式；以及用户自主选择工作模式。在自动切换模式下，重载时工作在恒定振荡频率1.2MHz，而在轻载时工作在断续模式，从而在全负载范围内实现高效率特点。

ME3109具有丰富的保护电路来确保系统的正常安全工作。比如输入欠压保护，过流保护，短路保护和过温保护等。

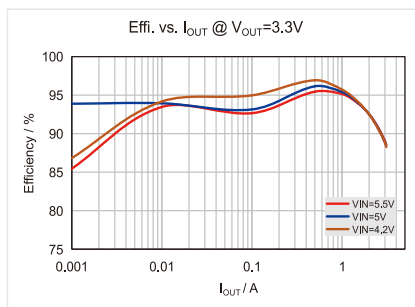
用途

- 便携式设备
- 通讯设备
- 音频及视频设备

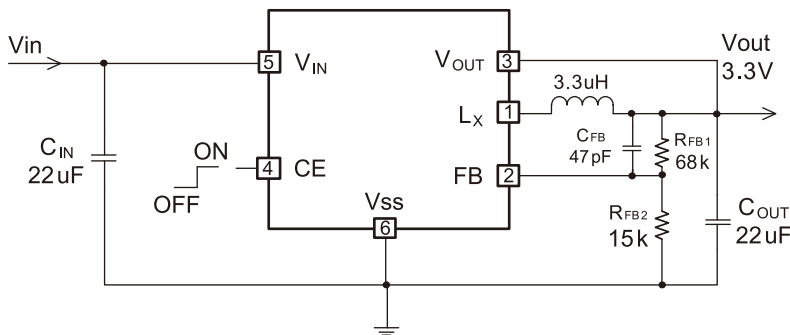
特性

- 输入电压范围：2.8V~5.5V
- 输出电压范围：0.8V~3.6V (±2%)
- 强负载：3A (@VIN=5V, VOUT=3.3V)
- 振荡器频率：1.2MHz
- 高效率：最高可达96%
- 控制方法：COT控制、100%占空比、强制PWM或者PWM/PFM自动切换
- 保护：过温保护、短路保护、限流保护
- 功能：软启动、UVLO、CL快速放电
- 工作环境温度：-40°C~+80°C
- 封装形式：DFN2*2-6L

特性曲线



应用方案



18V/2A 高效同步整流降压DC-DC转换器—ME3110

概述

ME3110是一款高功率密度的同步整流降压DC/DC转换器，集成低导通电阻70mΩ LSD功率NMOS和140mΩ HSD功率NMOS，具有更高的转换效率；转换器具备2A输出电流能力，支持4.4V ~ 18V的输入电压范围，开关频率500kHz，轻载时工作在省电模式(PFM)，待机电流低至120uA，重载时工作在电流连续的PWM。转换器采用恒定导通时间(COT)结合谷值电流检测的控制架构，具有较快的负载瞬态响应。

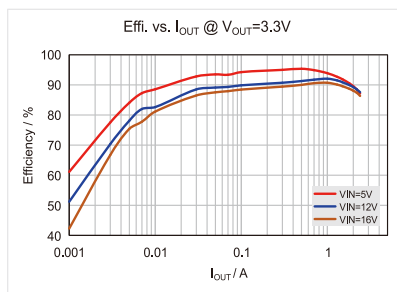
特性

- 输入电压范围：4.4V ~ 18V
- 开关导通电阻(LSD/HSD)：70mΩ / 140mΩ
- 待机电流：120uA
- 效率88%@VIN = 12V, VOUT = 3.3V, IOU = 2A
- 工作模式：PFM/PWM
- 输出短路保护功能，打嗝模式
- 过温保护160°C
- 封装形式：SOT23-6

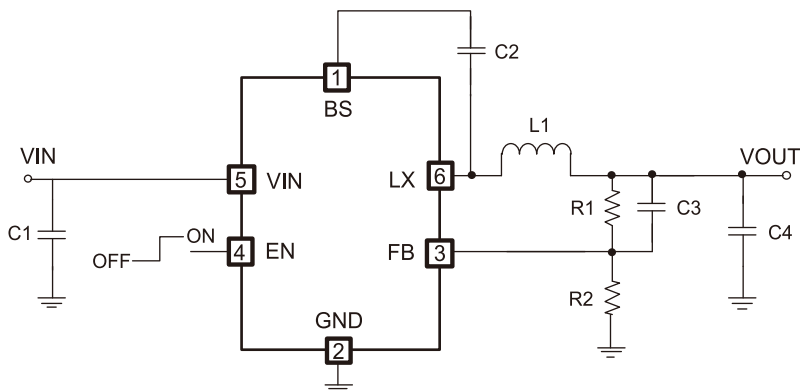
用途

- 机顶盒
- 液晶电视
- DSL 调制解调器
- 数字电视

特性曲线



应用方案



18V/3A 高效同步整流降压DC-DC转换器—ME3113

概述

ME3113是一款高功率密度的同步整流降压DC/DC转换器，集成低导通电阻40mΩ LSD功率NMOS和80mΩ HSD功率NMOS，具有更高的转换效率；转换器具备3A输出电流能力，支持4.5V~18V的输入电压范围，开关频率500kHz，轻载时工作在省电模式(PFM)，待机电流低至135uA，重载时工作在电流连续的PWM。转换器采用恒定导通时间(COT)结合谷值电流检测的控制架构，具有较快的负载瞬态响应。

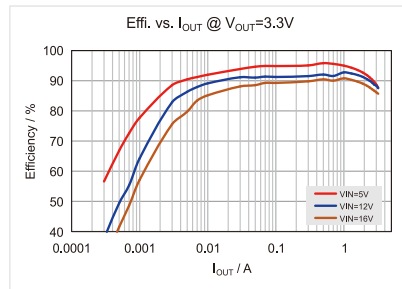
特性

- 输入电压范围：4.5V ~ 18V
- 开关导通电阻(LSD/HSD)：40mΩ / 80mΩ
- 待机电流：135uA
- 效率88%@VIN=12V, VOUT=3.3V, IOUT=3A
- 轻载工作模式：PFM
- 输出短路保护功能，打嗝模式
- 过温保护160°C
- 封装形式：SOT23-6

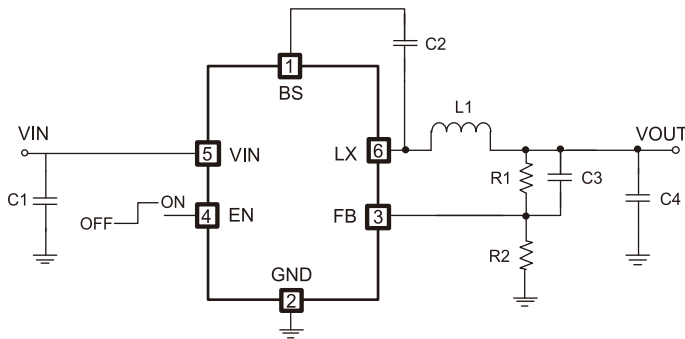
用途

- 机顶盒
- 液晶电视
- DSL 调制解调器
- 数字电视

特性曲线



应用方案



40V/1A 高效同步整流降压DC-DC转换器—ME3121

概述

ME3121是一款高功率密度的同步整流降压DC/DC转换器，集成低导通电阻180mΩ LSD功率NMOS和300mΩ HSD功率NMOS，具有更高的转换效率；转换器具备1A输出电流能力，支持4.7V~40V的输入电压范围，开关频率1.1MHz，轻载时工作在省电模式(PFM)，待机静态电流低至135uA。转换器采用恒定导通时间(COT)结合谷值电流检测的控制架构，具有较快的负载瞬态响应。

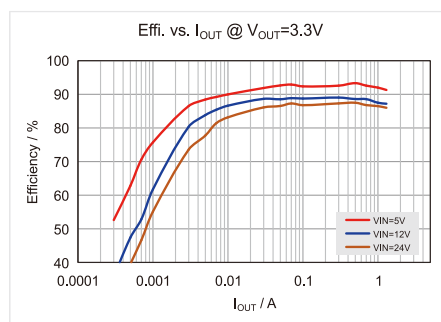
特性

- 输入电压范围：4.7V ~ 40V
- 开关导通电阻(LSD/HSD)：180mΩ / 300mΩ
- 待机电流：135uA
- 效率88%@VIN=12V, VOUT=3.3V, IOU=1A
- 轻载工作模式：PFM
- 输出短路保护功能，打嗝模式
- 过温保护160°C
- 封装形式：SOT23-6

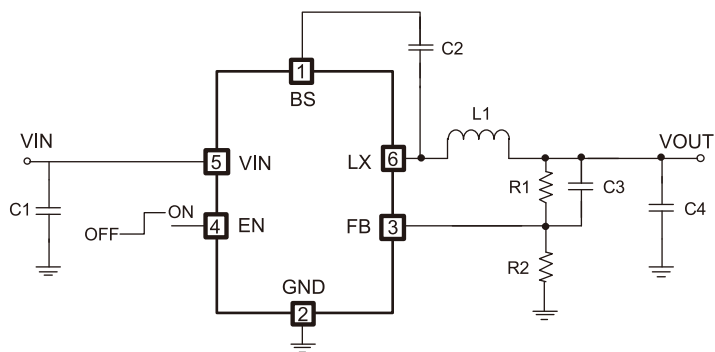
用途

- 电表
- 汽车后装

特性曲线



应用方案



带有真关断功能，高效PFM同步升压DC-DC转换器—ME2107

概述

ME2107是一系列高效、低功耗、PFM控制同步升压DC/DC转换器，带有使能真关断和短路保护功能。使能关断时，输入输出真正断开，系统消耗电流极低，提高设备使用周期和可靠性。

ME2107可提供1.8V~5.0V输出电压，步进0.1V，0.9V输入低压启动，适合应用单节碱性、镍氢干电池和锂电等电池供电设备。同步升压，SOT23-5封装，外围仅需要四个元件，就可以完成低输入电池电压升压到所需的工作电压。

特性

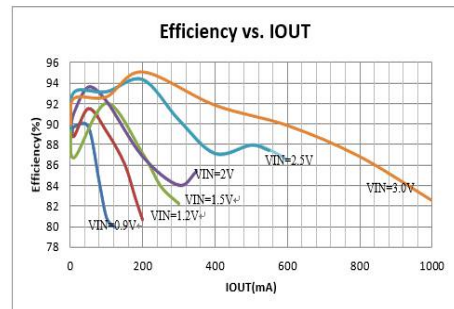
- 使能真关断（输入输出真正断开）
- 短路保护（短路电流300mA）
- 同步整流高效率：93%
- 低压启动：0.9V@IOUT = 1mA
- 低静态电流：7.5uA
- 频率：320KHz
- 输出电压：1.8V ~ 5V
- 输出精度：±2%
- 输出电流：300mA以上@(VIN = 2.5V, VOUT = 3.3V)
- 封装形式：SOT23-5

用途

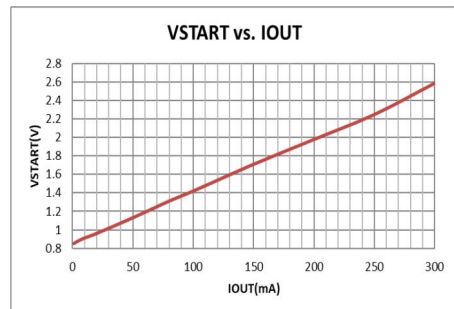
- 1~3节干电池的电子设备、单节锂电供电设备
- 数码相机、LED手电筒、LED灯、血压计
- 遥控玩具、无线耳机、无线鼠标键盘、医疗器械、汽车防盗器、充电器、VCR、PDA等手持电子设备

特性曲线

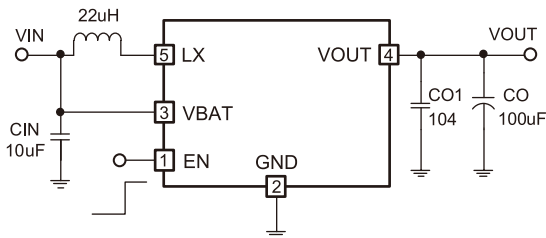
输出效率与输出电流



启动电压与带载电流



应用方案



高效、7A开关电流、同步整流升压DC-DC转换器—ME2177

概述

ME2177是一款高功率密度的同步整流升压DC-DC转换器，集成两个低导通电阻的功率开关来降低开关导通功率损耗，为便携设备提供高效率、小型化的供电方案。**ME2177**具有2.7V ~ 12V的宽输入电压范围，输出电压最高至12.6V，具备7A开关电流能力，可提供20W功率输出。**ME2177**采用电流模COT控制架构调整输出电压，重载时工作在PWM模式，轻载时PFM模式，同时可通过外部电阻在200kHz~2.2MHz之间设定PWM模式开关频率。**ME2177**可通过外部电阻设定峰值限流值。除此之外，**ME2177**包含有内置软启动时间、输入UVLO、OVP和OTP等保护功能。

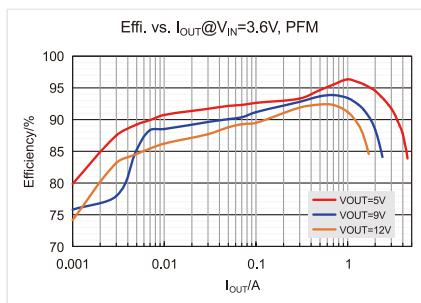
特性

- 输入电压范围：2.7V ~ 12V(A)，2V ~ 12V(B)
- 输出电压范围：4.5V ~ 12.6V
- 关断电流：1uA ~ 3uA(A)，1uA ~ 5uA(B)
- RDS(ON)的内部开关 (LSD / HSD)：20 mΩ / 28 mΩ
- 效率89% @ VIN = 3.3V, VOUT = 9V, IOU = 2A
- 可调开关频率：200kHz ~ 2.2MHz
- 内置软启动时间：2.5ms
- 输出过压保护：13.4V
- 过温保护：150 °C
- 封装形式：QFN2.5*2.0-11L

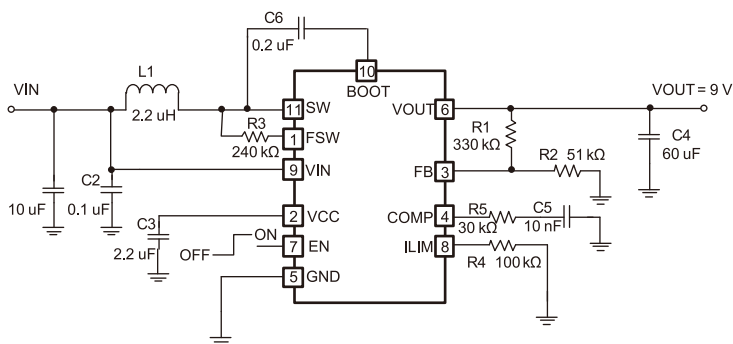
用途

- 快充移动电源
- 蓝牙扬声器
- 便携POS终端

特性曲线



应用方案



高效、10A开关电流、同步整流升压DC-DC转换器—ME2187

概述

ME2187是一款高功率密度的同步整流升压转换器，集成两个低导通电阻的功率开关来降低开关导通功率损耗，为便携设备提供高效率、小型化的供电方案。ME2187具有2.7V~12V的宽输入电压范围，输出电压最高至12.6V，具备10A开关电流能力，可提供30W功率输出。ME2187采用电流模COT控制架构调整输出电压，重载时工作在PWM模式，轻载时可通过MODE PIN在PFM模式和FPWM模式之间选择，避免较低的开关频率引起的应用问题，同时可通过外部电阻在200kHz~2.2MHz之间设定FPWM模式开关频率。ME2187还具有可编程的峰值限流和软启动时间。除此之外，ME2187包含有UVLO、OVP和OTP等保护功能。

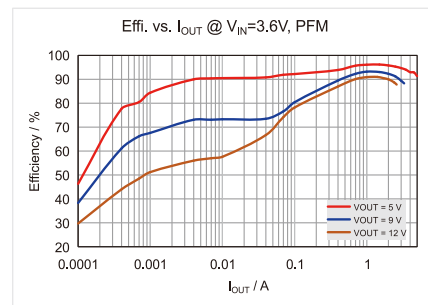
特性

- 输入电压范围：2.7V ~ 12V
- 输出电压范围：4.5V ~ 12.6V
- 关断电流：1μA ~ 3μA
- RDS(ON)的内部开关(LSD / HSD)：13mΩ / 16mΩ
- 效率90% @ VIN = 3.3V, VOUT = 9V, IOU = 3A
- 可调开关频率：200kHz ~ 2.2MHz
- 轻载时可选择工作模式：PFM / FPWM
- 输出过压保护：13.4V
- 过温保护：150 °C
- 封装形式：ESOP16、DFN4.5*3.5-20L

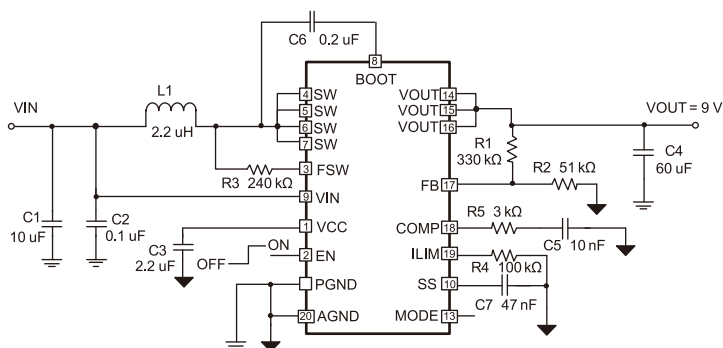
用途

- 快充移动电源
- 蓝牙扬声器
- 便携POS终端

特性曲线



应用方案



高充电电流精度，小电流充电管理芯片—ME4051

概述

ME4051是一款完整的单节锂离子电池恒压恒流充电管理芯片。采用DFN2*2-6L封装形式。输入最高耐压9V。通过外接可编程电阻即可实现±5%高精度的充电电流。也不需要外部隔离二极管实现防倒灌应用。其内部有热反馈电路可以对在充电过程中对芯片温度加以控制。充电截止电压固定在4.2V，为锂电池快速充电提供安全简单的解决方案。

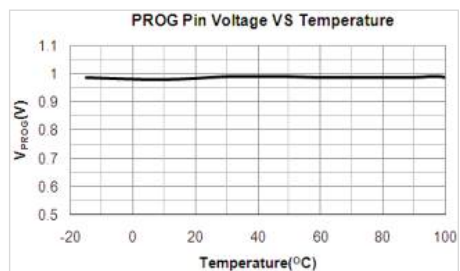
特性

- 最高输入耐压9V，提高系统可靠性
- 可编程充电电流：5mA~100mA
- 防倒灌保护功能
- ±5%的充电电流精度
- ±1%的充电电压精度
- 内部热反馈保护功能
- 输入去除自动进入休眠模式
- 自动给电池再充电
- 过压保护：10.2V
- 封装形式：DFN2*2-6L

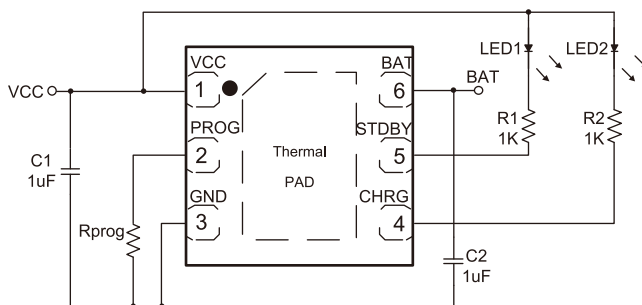
用途

- TWS耳机
- 便携设备
- 智能穿戴

特性曲线



应用方案



单节2.5A开关型锂电池充电管理芯片—ME4068

概述

ME4068是一款具有涓流，恒流，恒压充电模式的锂电池充电管理芯片。可以分别给单节（4.2V/4.35V）锂电池进行快速高效地充电。**ME4068**最高输入电压14V。**ME4068**采用电流模式PWM降压型开关结构，为锂电池快速充电提供了微型、简单且高效的解决方案。内部含有定时器设定涓流充电时间和电流模式充电时间。芯片有对电池温度进行实时检测功能，具备自恢复功能。**ME4068**外围简单，没有功率器件，为锂电池快速充电提供安全简单的解决方案。

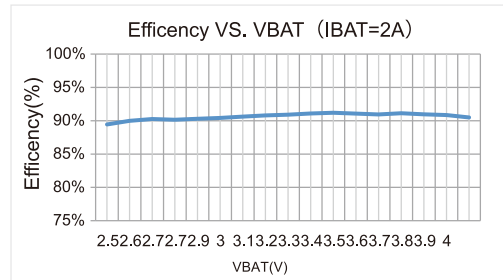
特性

- 宽范围电源电压：4.7V~14V
- 高达2.5A的充电电流
- 具有输入自适应功能
- 外围器件少，方案简单
- $\pm 1\%$ 的充电电压精度
- $\pm 10\%$ 的充电电流精度
- 输入去除自动进入休眠模式
- 自动给电池再充电
- 电池温度检测
- 封装形式：ESOP8

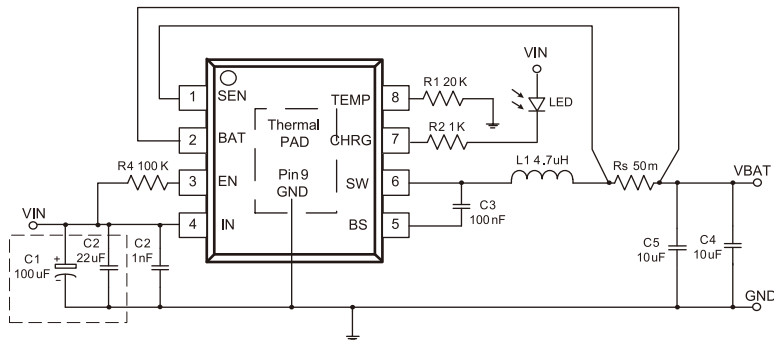
用途

- 便携式笔记本电脑
- 便携式DVD、手持设备、笔记本电脑
- 智能手机、移动电源、各种充电器

特性曲线



应用方案



单节1.8A开关型锂电池充电管理芯片—ME4069

概述

ME4069是一款具有涓流，恒流，恒压充电模式的锂电池充电管理芯片。可以给单节（4.2V/4.35V）锂电池进行快速高效地充电。**ME4069**最高输入电压5.5V。**ME4069**采用电流模式PWM降压型开关结构，为锂电池快速充电提供了微型、简单且高效的解决方案。内部含有定时器设定涓流充电时间和电流模式充电时间。芯片有对电池温度进行实时检测功能，具备自恢复功能。**ME4069**外围简单，没有功率器件，为锂电池快速充电提供安全简单的解决方案。

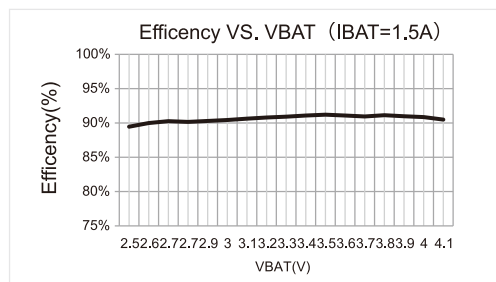
特性

- 宽范围电源电压：4.7V~5.5V
- 高达1.8A的充电电流
- 内置软启动功能
- 外围器件少，方案简单
- $\pm 1\%$ 的充电电压精度
- $\pm 10\%$ 的充电电流精度
- 输入去除自动进入休眠模式
- 自动给电池再充电
- 电池温度检测
- 封装形式：ESOP8

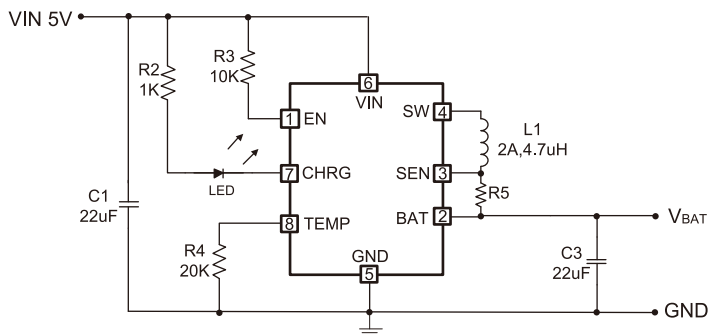
用途

- 便携式笔记本电脑
- 便携式DVD、手持设备、笔记本电脑
- 智能手机、移动电源、各种充电器

特性曲线



应用方案



双节/三节开关型锂电池充电管理芯片—ME4078

概述

ME4078是一款具有涓流，恒流，恒压充电模式的锂电池充电管理芯片。可以分别给双节（8.4V/8.7V）三节（12.6V/13.05V）锂电池进行快速高效地充电。

ME4078最高输入电压16V。**ME4078**采用电流模式PWM降压型开关结构，为锂电池快速充电提供了微型、简单且高效的解决方案。内部含有定时器设定涓流充电时间和电流模式充电时间。芯片有对电池温度进行实时检测功能，具备自恢复功能。**ME4078**外围简单，没有功率器件，为锂电池快速充电提供安全简单的解决方案。

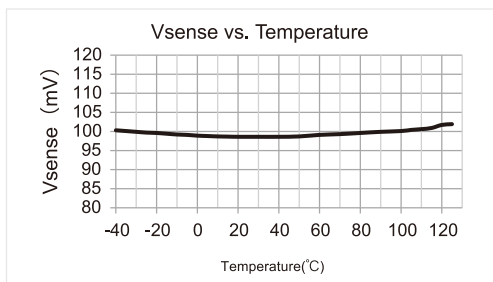
特性

- 输入电压范围：双节：10V~16V；三节：13.5V~16V
- 最大充电电流：双节：2A；三节：1.5A
- 具有输入自适应功能
- 外围器件少，方案简单
- ±1% 的充电电压精度
- ±10% 的充电电流精度
- 输入去除自动进入休眠模式
- 自动给电池再充电
- 电池温度检测
- 封装形式：ESOP8

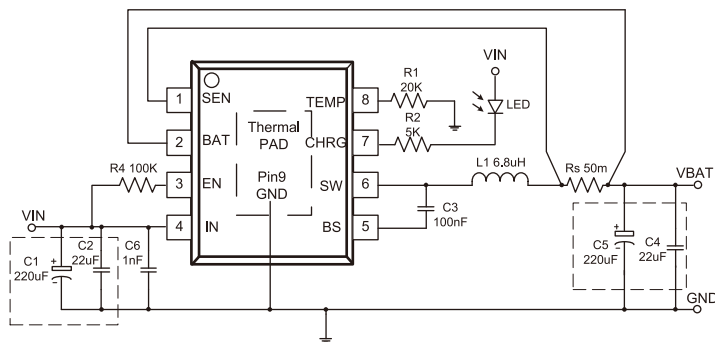
用途

- 便携式笔记本电脑
- 便携式DVD、手持设备、笔记本电脑
- 智能手机、移动电源、各种充电器

特性曲线



应用方案



高压两节线性充电管理芯片—ME4052

概述

ME4052是一款完整的双节锂离子电池恒压恒流充电管理芯片。ME4052通过外接电流检测电阻即可实现高精度的充电电流。其内部有热反馈电路可以对在充电过程中对芯片温度加以控制。充电截止电压固定在8.4V。当充电电流达到恒流电流的1.5/10时，ME4052将终止充电。当输入电压被拿掉后，ME4052进入睡眠模式。此时电池漏电流降低到5 μ A以下。ME4052还具有输入欠压锁定，自动再充电和充电指示引脚。

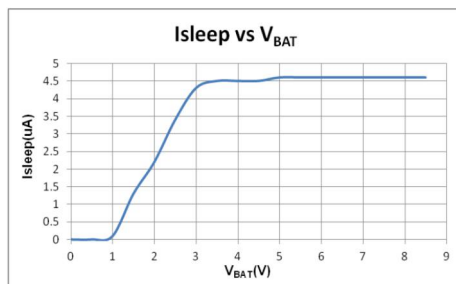
特性

- 输入电压范围：8.9-15V
- 输入最高耐压18V
- 可编程充电电流可达1A
- 防倒灌保护功能
- 电池温度检测功能
- $\pm 1\%$ 的充电电压精度
- 内部热反馈保护功能
- 自动电池再充电
- 过压保护：16V
- 封装形式：ESOP8

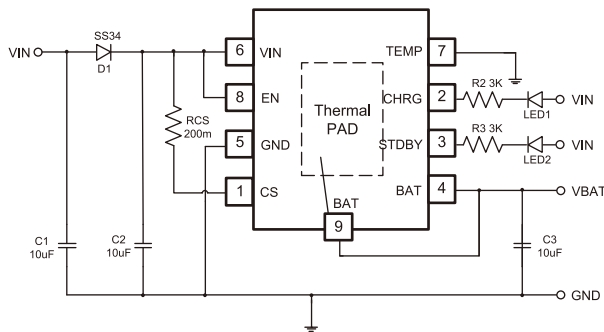
用途

- 便携式充电设备
- 各种手持电子设备
- 移动电源

特性曲线



应用方案



耐压24V的锂电池线性充电管理芯片—ME4084

概述

ME4084是一款耐压24V的单节锂离子电池恒压恒流充电管理芯片,最大充电电流可达600mA。**ME4084**不需要电流检测电阻,也不需要外部隔离二极管实现防倒灌应用。充电截止电压固定在4.2V。当输入电压被拿掉后,**ME4084**进入睡眠模式。此时电池漏电流降低到2uA以下。为锂电池快速充电提供安全简单的解决方案。

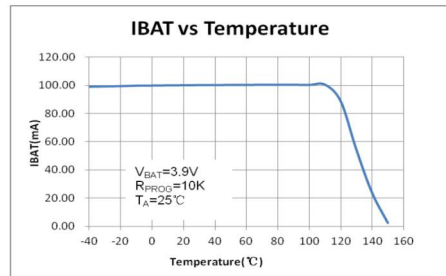
特性

- 最高输入耐压24V,提高系统可靠性
- 可编程充电电流可达600mA(ME4084B:1A)
- 防倒灌保护功能
- 外围器件少,方案简单
- ±1%的充电电压精度
- 内部热反馈保护功能
- 输入去除自动进入休眠模式
- 自动给电池再充电
- 过压保护:6.5V
- 封装形式:SOT23-5(ME4084B:ESOP8)

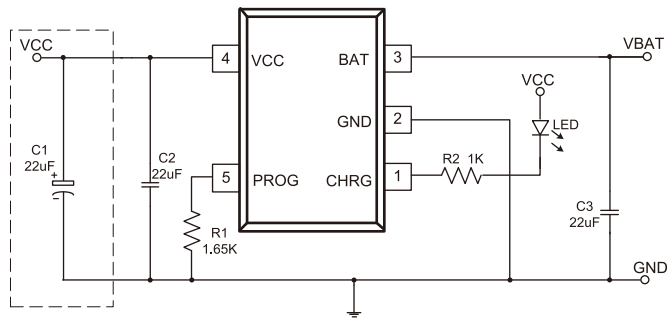
用途

- 数码电子产品
- 蓝牙应用
- 便携设备

特性曲线



应用方案



高性能电流模式PWM开关电源控制芯片—ME8210

概述

ME8210是一款高性能的电流模式PWM控制芯片，为90W以内的中小功率AC/DC转换器的设计提供了最优化的选择。ME8210带高压启动，X电容放电功能，空载功耗低于50mW，谷底导通，效率高，可以轻易满足六级能效标准。

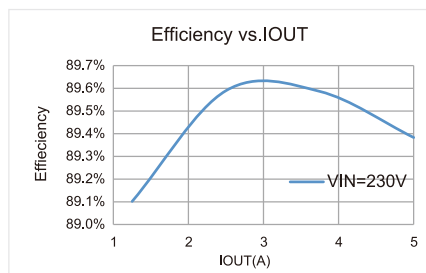
特性

- 空载功耗低于50mW
- 高压启动
- X电容放电
- 频率抖动，简化系统EMI设计
- 降噪功能
- 轻载进入绿色模式
- 斜坡补偿
- 过功率补偿
- 前沿消隐
- 完善的保护：OCP、OVP、OTP、OLP、UVLO
- 封装形式：SOP8

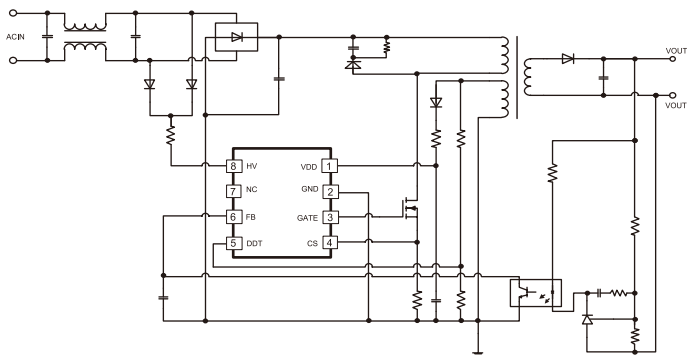
用途

- 手机充电器、快充
- 机顶盒电源
- 便携式设备适配器
- 开放式电源
- 小家电电源

特性曲线



应用方案



内置高压启动电阻及高压开关管的ACDC转换器—ME8165G

概述

ME8165G是一款高性能电流模式PWM控制器，专为高性价比ACDC转换器设计，在85-265V的全电压范围内提供最高18W的连续输出功率，优化的高合理性电路设计结合高性价比的双极制作工艺，节约了产品的整体成本。IC内部启动电路被设计成一种独特的电流吸入方式，可利用功率开关管的自身放大作用完成启动，这显著地降低了启动电阻的功率消耗。而在输出功率较小时，IC将自动降低工作频率，从而实现了极低的待机功耗，IC内部提供了完善的防过载，防饱和功能，可实时防范过载、变压器饱和、输出短路等异常状况，提高了电源的可靠性。IC内部还集成了温度保护，过压保护等功能。内置700V高压启动电阻，节约了PCB的整体成本。四个OC脚排布有助于PCB散热。

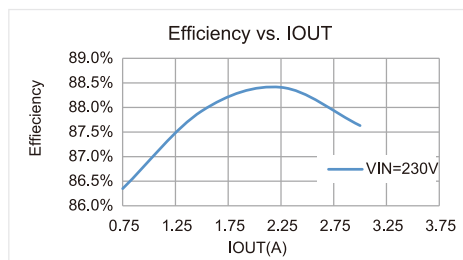
特性

- 内置700V高压功率开关管
- 内置高压启动，快速启动
- 内置能效处理控制，待机低于0.1W
- 内置过压欠压与短路保护功能
- 内置过载与过温保护功能
- 精确温度补偿，精确逐周期电流控制
- 低启动电流和低工作电流
- 自适应频率回转设计，EMI干扰小
- 高转换效率
- 宽VCC供电范围4-21V
- 封装形式：DIP8

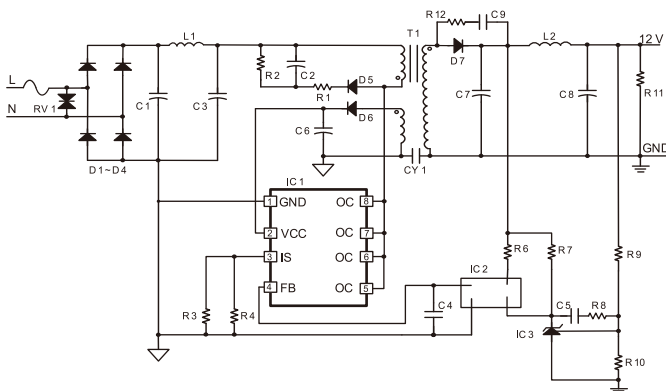
用途

- 电源适配器
- 便携式设备充电电源
- DVD/DVB电源
- 电池充电器

特性曲线



应用方案



高性能多模式开关电源控制芯片—ME8224

概述

ME8224是一款高性能的多模式次边反馈控制芯片，采用多模式控制方法可实现不同输入和负载条件下的效率最优化。ME8224具有80V的VCC耐压，低启动功耗可以使用电阻启动，空载功耗低于50mW，采用特殊的频谱搬移技术和电流峰值抖动技术，有效降低EMI。谷底导通，效率高，集成多种检测与保护功能，采用特殊的自适应软驱动技术以满足不同MOS的驱动需求，可轻易满足六级能效标准。

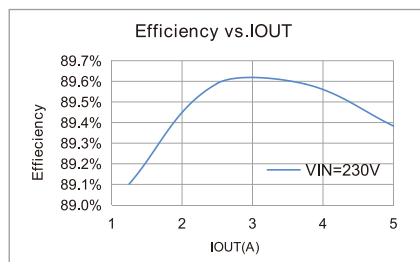
特性

- 空载功耗低于50mW，使用电阻启动
- 自适应软驱动技术
- 宽电压VCC工作范围 up to 80V
- 频率抖动和峰值电流抖动改善EMI
- DPWM+PFM+PWM工作模式，Force DCM
- 内置斜坡补偿
- 输入电压补偿
- 前沿消隐
- 完善的保护：OCP、OVP、OTP、OLP、UVLO、Brown-In、Brown-Out
- 封装形式：SOT23-6

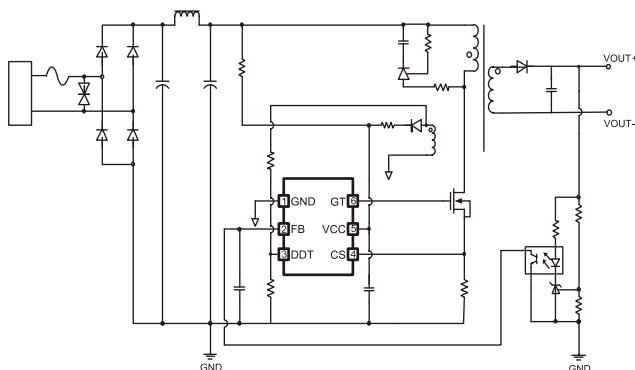
用途

- 手机充电器、快充
- 便携式设备适配器
- 开放式电源
- 小家电电源

特性曲线



应用方案



非隔离交直流转换芯片—ME8624

概述

ME8624是一款高性能非隔离交直流转换芯片。内置600V高压MOSFET，只有三个引脚，其应用外围简单，为小功率电源应用提供了低成本，高效率的解决方案。

ME8624内置高压启动模块，实现系统快速启动、超低待机功耗。同时，其内部还集成了欠压锁定，过温保护，过载保护，短路保护，开环保护等功能。

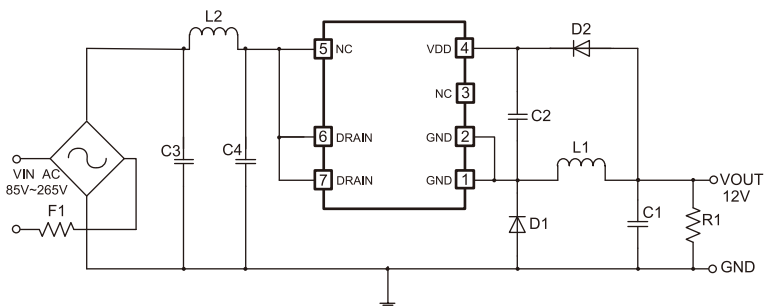
特性

- 内置600V高压功率管
- 内置高压启动
- 具有优异的负载调整率
- 三引脚，外围系统简单
- 高效率
- 超低待机功耗
- 集成欠压锁定，过温保护，过载保护，短路保护，开环保护等功能
- 封装形式：SOP7、DIP7

用途

- 家用电器
- 非隔离辅助电源
- 工业电源

应用方案



非隔离降压式LED驱动芯片— ME8607

概述

ME8607是一款非隔离降压式LED驱动芯片，可应用于6-100V DC输入LED驱动，以及 85-265V AC 输入LED驱动。应用于AC输入LED驱动时，可无需VCC电容。**ME8607**采用电感电流连续控制模式，具有低输出电流纹波和高效率的特点。**ME8607**具有MODE引脚，可以用来设置LED电流为全亮或半亮。**ME8607**还集成了温度保护、LED短路保护、CS脚开路保护等保护功能。

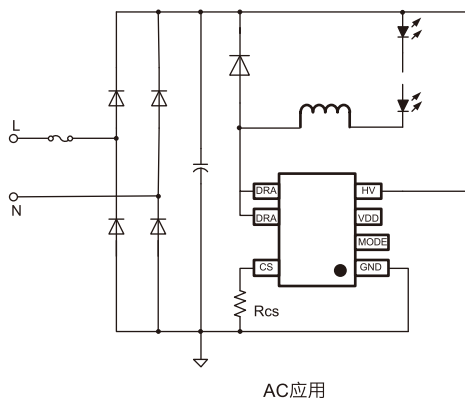
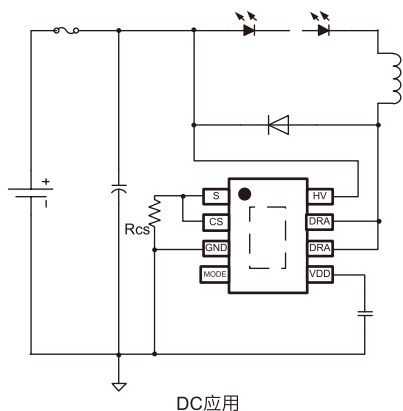
特性

- 集成高压供电功能
- AC输入应用时无需外部VCC电容
- 电感电流连续控制模式，低输出电流纹波
- 温度调制保护功能
- CS开路保护功能
- 输出短路保护功能
- MODE脚设置半亮。
- 封装形式：ESOP8（DC应用）
SOP7（AC应用）

用途

- LED球泡灯，LED灯管驱动
- 电动车LED照明驱动
- RGB 背光 LED 驱动

应用方案



可调光、带恒功率功能单段线性恒流LED驱动芯片— ME8620

概述

ME8620是一款带恒功率功能，且支持PWM、模拟、可控硅调光的单段线性恒流LED驱动芯片。电流输出范围5~110mA。输出电流及恒功率电压补偿幅度均可通过外围元件设置调节。芯片通过DIM脚支持PWM、模拟调光功能。芯片还支持可控硅调光功能，具有独立的泄放电流通路，及维持电流设置脚，兼容各种调光器。ME8620还支持利用泄放电流通路增大电流驱动能力至200mA左右。

芯片具有温度保护功能，当芯片结温超过温度保护阈值后，输出电流降低。

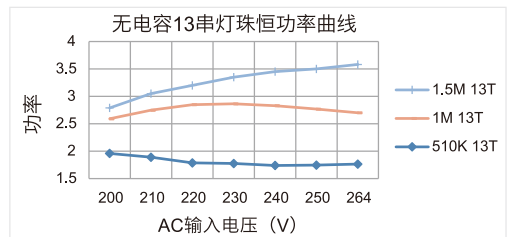
特性

- 集成500V耐压LDMOS，集成独立高压供电
- 输出电流可通过外置电阻调节
- 恒功率电压补偿功能，补偿幅度可通过外围电阻调节
- 支持PWM、模拟调光
- 支持可控硅调光，独立的泄放电流通路及维持电流设置引脚
- 支持利用泄放电流通路增大驱动能力至200mA
- LED电流的温度调节功能
- 封装形式：ESOP8

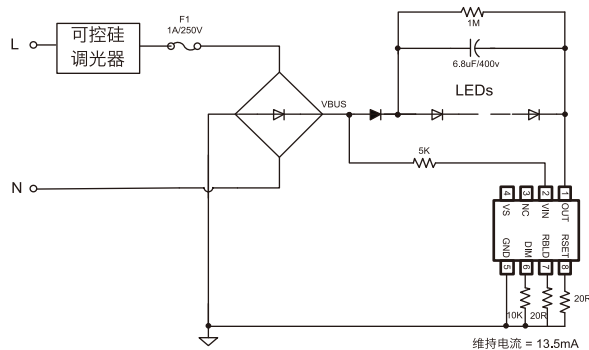
用途

- LED球泡灯，LED日光灯，LED投光灯
- LED智能照明应用

特性曲线



应用方案



带恒功率功能单段线性恒流LED驱动芯片— ME8628

概述

ME8628是一款带恒功率保护功能的线性恒流LED驱动芯片。电流输出范围 5~110mA。输出电流以及电压补偿幅度均可通过外置电阻设置调节。芯片具有电压补偿功能：当输入电压升高时，输出电流降低，从而实现恒功率输出。芯片还具有温度保护功能，当芯片结温超过温度保护阈值后，输出电流降低，从而保护芯片和系统。

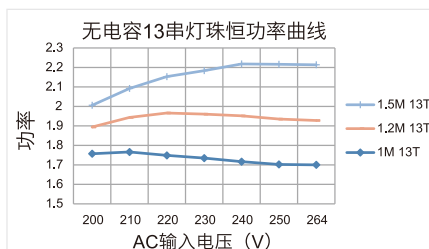
特性

- 集成500V耐压LDMOS
- 输出电流可通过外置电阻调节
- LED电流的电压补偿功能，补偿幅度可通过外置电阻调节
- LED电流的温度调节功能
- 封装形式：ESOP8

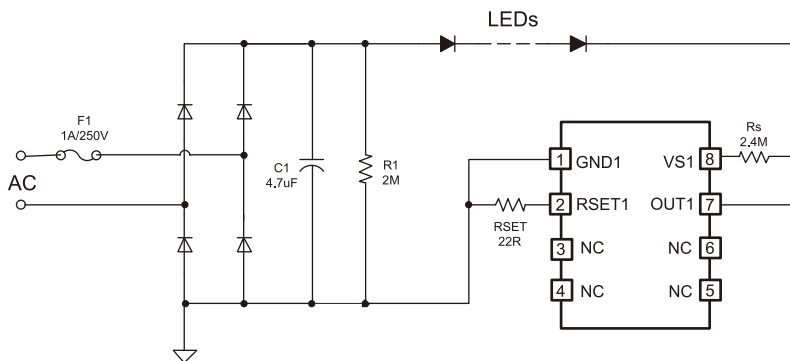
用途

- LED球泡灯，LED日光灯，LED投光灯
- 线性LED光源驱动

特性曲线



应用方案



同步整流控制器 —ME8415

概述

ME8415是一款ACDC次边同步整流控制芯片。芯片可支持5~20V的工作电压，能兼容CCM、DCM、QR等工作模式。芯片采用创新性的自适应死区时间控制技术有效避免cross conduction的发生。芯片采用智能同步开启条件判断技术，能可靠地避免DCM模式下在振铃区域开启同步管。芯片内部还集成了过温保护、欠压保护、过压保护等功能。

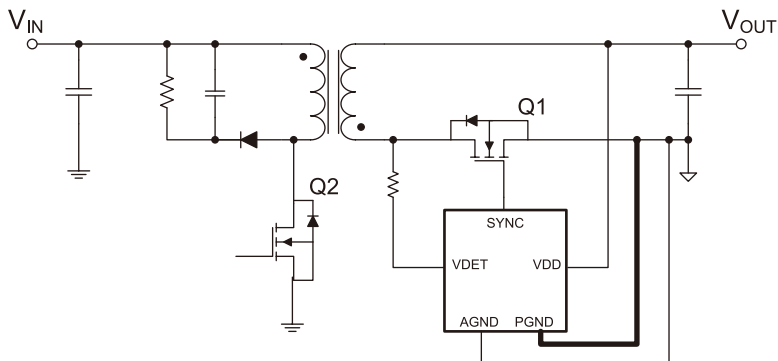
特性

- 自适应死区时间控制
- 智能同步开启条件判断
- 兼容CCM、DCM、QR工作模式
- VDD电压范围：5~20V
- 死区时间过小保护
- 轻载模式以降低功耗
- PASS HBM 3000V，CDM 1000V
- 封装形式：SOT23-5

用途

- 5~20V输出的反激同步整流控制
- 充电器和适配器
- 反激式控制器

应用方案





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