



特点

- * 输入输出不隔离降压型变换器
- *3.3V 或 5V 标称输入电压,6A 标称输出负载
- * 外形尺寸: 50.8 × 12.7 × 8.3 mm
- * 高效率、高功率密度

Features

- * Non-isolated Buck Converter
- * 3.3V or 5V Nominal Input Voltage, 6A Output Current
- * Size: 2.0 \times 0.5 \times 0.33 inch
- * High Efficiency, High Power Density

输入特性(Input)			注释(Notes and Co	onditions)
输入电压范围(Input Voltage I	Range)	3.0~5.5Vdc	6.5Vdc Max	
遥控功能(Remote On/Off Full	nction)			
负逻辑(Negative L	ogic) 开启(On)	低电平(-0.7~1.2Vd	c/1mA)或悬空	
		(Low Level (-0.7~1	.2Vdc/1mA)or Open Circuit)	
	关闭(Off)	高电平(2.8~12Vdc/	1mA)框对于 GND	
		(High Level (2.8~12	2Vdc/1mA) Reference to GND)	

输出特性(Output)		注释(Notes and Conditions)
输出电压精度(Voltage Set-Point Accuracy)	± 1%	Vinom and Ionom
源效应(Line Regulation)	± 0.5%Vo	Vimin~Vimax, Ionom
负载效应(Load Regulation)	± 0.5%Vo	0~100%lonom, Vinom
输出电压调节范围(Output Voltage Trim Range)	± 16%	
故障告警功能(PRGOOD Pin Function)	工作正常时 PRGOOD 端相对于地高	电平(3.0-5.5Vdc)
	Normal:High Level(3.0-5.5Vdc) Refer	rence to GND
输出过流保护点(Current Limit Threshold Range)	≥ 7A	
短路保护(Short-Circuit Protection)	连续可恢复	
	(Continuous ,Automatic Recovery)	
瞬态响应(Dynamic Response)		
过冲幅度(Peak Deviation)	≤ 100mV	25%-50%-25% of Ionom, Vin=Vinom
恢复时间(Settling Time)	≼ 100 μ s	and 50%-75%-50% of Ionom, Vin=Vinom

一般特性(General)		注释(Notes and Conditions)
温度系数(Temperature Coefficient)	± 0.02%/℃	
相对湿度(Relative Humidity)	≤ 90%RH,(40 ± 2)°C	
工作环境温度(Operating Ambient Temperature)1	-25℃~+55℃	
贮存温度(Storage Temperature)	-40℃~+125℃	
开关频率(Switching Frequency)	400kHz	
冷却方式(Cooling)	自然冷却(Natural Convection)	或强制风冷(or Forced Convection)
平均故障间隔时间(MTBF)	2 × 10⁵h	MIL-HDBK-217
重量(Weight)	6.5g	

注:除非另有说明,指标一般在标称输入电压、满载和25℃环境温度下测得。

1 参见降额曲线图(Reference to Derating Curve)

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BSN6A-4S 9~10.8W Series

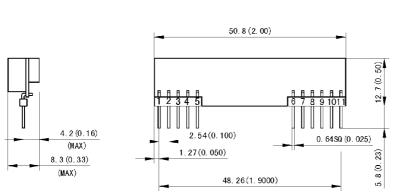


型号列表(Models)

产品型号	标称输入电压	标称输出电压	标称负载	额定输出功率	效率	输出杂音电压峰峰值
(Model Number)	(Input Voltage)	(Output Voltage)	(Output Current)	(Output Power)	(Efficiency)	(Ripple and Noise)
	Vdc	Vdc	Α	W	%	mVp-p
BSN6A-4S1V5	3.3 or 5.0	1.50	6.00	9	81	50
BSN6A-4S1V8	3.3 or 5.0	1.80	6.00	10.8	83	50

安装尺寸(Mechanical Drawing)

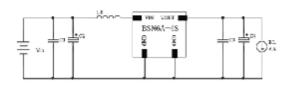
尺寸单位是 mm(inches); All Dimensions in mm (inches)



引脚定义(Pin Definition)		
引脚(Pin)	单路(Single)	
1	+Vout	
2	+Vout	
3	Sense	
4	+Vout	
5	GND	
6	GND	
7	+Vin	
8	+Vin	
9	PRGOOD	
10	Trim	
11	Rem	

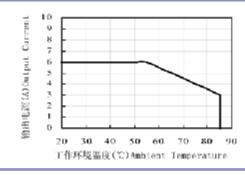
未注公差按下表		
(Tolerances Unless Otherwise Specified)		
mm	inches	
.x ±0.5	.xx ±0.02	
.xx ±0.25	.xxx ±0.010	

应用电路推荐(Recommended Application Circuit)

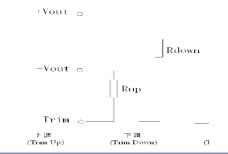


C1、C3 推荐值(Recommended): 2.2µF 陶瓷电容(Ceramic Capacitor)
C2、C4 推荐值(Recommended): 220 P F 组电容(Fantalish Capacitor)
L1 推荐值(Recommended): 1.5 P F 电路(Induster)

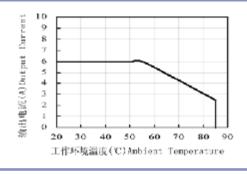
Vin=3.3V 时温度降额曲线(Temperature Derating Curve Circuit)



输出电压调节(Output Voltage Trim)



Vin=5V 时温度降额曲线(Temperature Derating Curve)



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