

TDS:EMIC

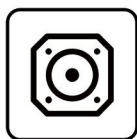
拓 電 半 導 體

自主封測 品質把控 售後保障

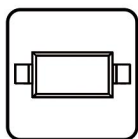
WEB | WWW.TDSEMIC.COM



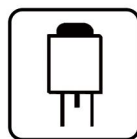
電源管理



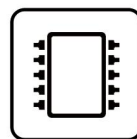
顯示驅動



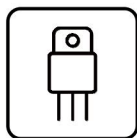
二三極管



LDO穩壓器



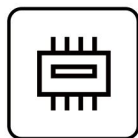
觸摸芯片



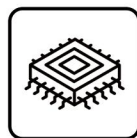
MOS管



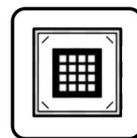
運算放大器



存儲芯片



MCU



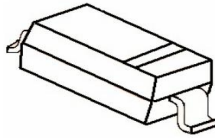
串口通信

B5819W SL

產品規格說明書

B5817W/B5818W/B5819W

SOD-123



Marking: B5817W: SJ
B5818W: SK
B5819W: SL

SOD-123 贴片塑封肖特基二极管

SOD-123 Plastic-Encapsulate Schottky Barrier Diode

特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop

机械数据 Mechanical Data

- 封装: SOD-123 封装 SOD-123 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	B5817W	B5818W	B5819W	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	VRRM	20	30	40	V
最大均方根电压 Maximum RMS voltage	VRMS	14	21	28	V
最大直流阻断电压 Maximum DC blocking voltage	VDC	20	30	40	V
最大正向平均整流电流 Maximum average forward rectified current	IFM	1.0			A
峰值正向浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	IFSM	9			A
典型热阻 Typical thermal resistance	RθJA	250			℃/W
功率消耗 Power Dissipation	PD	500			mW
存储温度 Storage temperature range	TSTG	-50-+150			℃

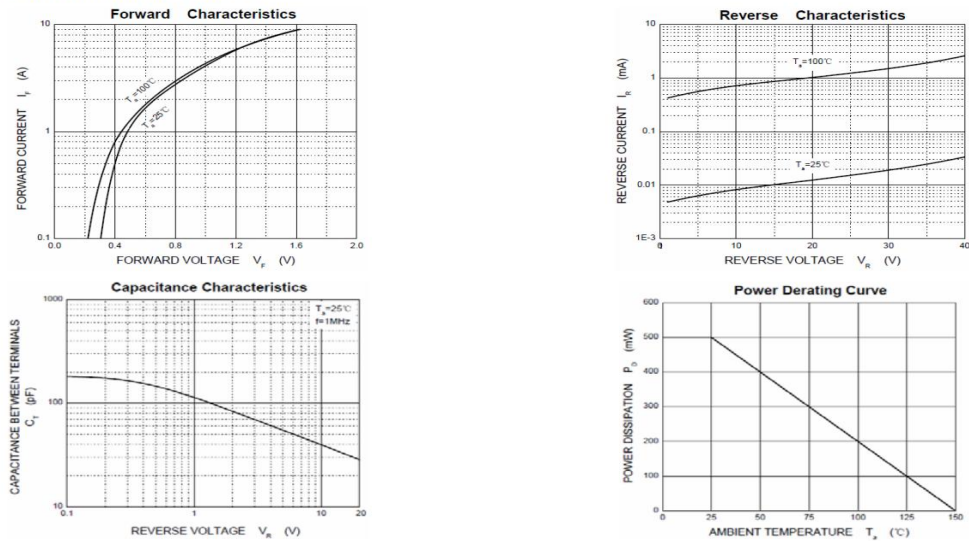
电特性 (TA = 25℃ 除非另有规定)

Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

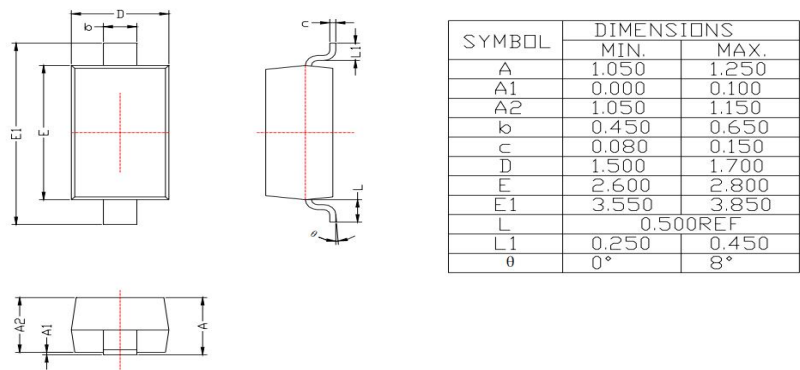
参数 Parameters	符号 Symbol	测试条件 Test conditions	B5817W	B5818W	B5819W	单位 Unit
最大正向电压 Maximum forward voltage	VF	IF = 1.0A IF = 3.0A	0.450 0.750	0.550 0.875	0.600 0.900	V
最大反向电压 Maximum reverse breakdown voltage	VR	IR=1mA	20	30	40	V
最大反向电流 Maximum reverse current	IR	VR=20V B5817W VR=30V B5818W VR=40V B5819W	1.0			mA
典型结电容 Type junction capacitance	Cj	VR = 4.0V, f = 1MHz	120			pF

B5817W/B5818W/B5819W

特性曲线Characteristic Curves



SOD-123 PACKAGE OUTLINE Plastic surface mounted package



焊盘设计参考Precautions: PCB Design(Recommended land dimensions for SOD-123 diode. Electrode patterns for PCBs)

