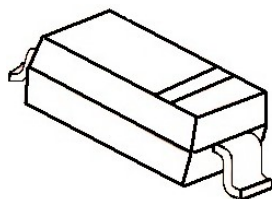


SOD-123



Marking: B5817W: SJ

B5818W: SK

B5819W: SL

单重: 10.5mg/pc

SOD-123 Plastic-Encapsulate Schottky Barrier Diode

特征 Features

- High Current Capability
- Low Forward Voltage Drop

机械数据 Mechanical Data

- SOD-123 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any
- Green molding compound device(无卤产品)

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
Maximum repetitive peak reverse voltage	VRRM	20	30	40	V
Maximum RMS voltage	VRMS	14	21	28	V
Maximum DC blocking voltage	VDC	20	30	40	V
Maximum average forward rectified current	IFM	1.0			A
Peak forward surge current 8.3 ms single half sine-wave	IFSM	9			A
Typical thermal resistance	RθJA	250			℃/W
Power Dissipation	PD	500			mW
Storage temperature range	TSTG	-50-+150			℃
Operating temperature range	Tj	-40 to +125			℃

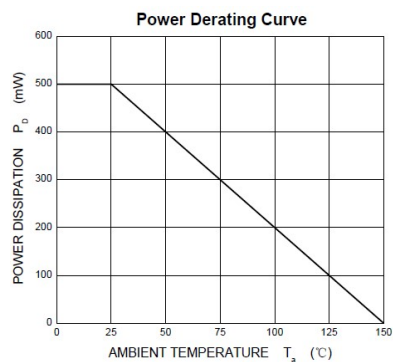
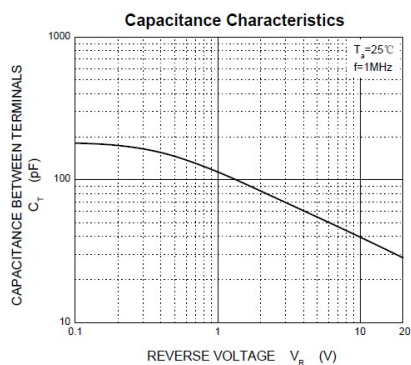
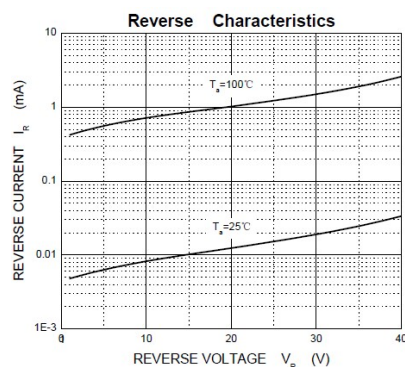
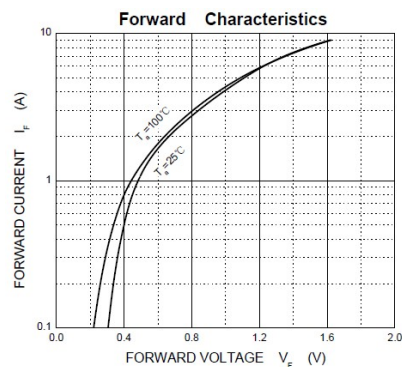
电特性 (TA = 25℃ 除非另有规定)

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

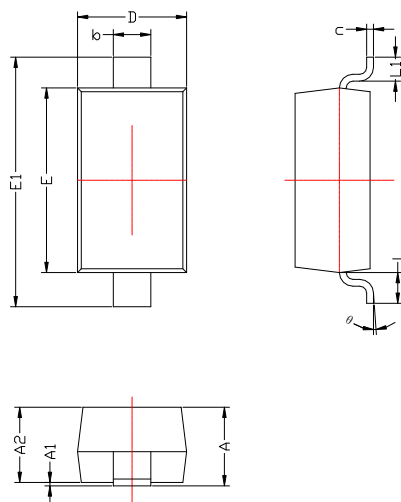
参数 Parameters	符号 Symbol	测试条件 Test conditions	B5817W	B5818W	B5819W	单位 Unit
Maximum forward voltage	VF	IF = 1.0A IF = 3.0A	0.450 0.750	0.550 0.875	0.600 0.900	V
Maximum reverse breakdown voltage	VR	IR=1mA	20	30	40	V
Maximum reverse current	IR	VR=20V B5817W VR=30V B5818W VR=40V B5819W	1.0			mA
Type junction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

B5817W/B5818W/B5819W

特性曲线Characteristic Curves

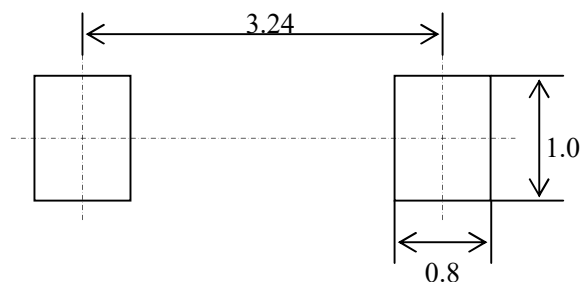


SOD-123 PACKAGE OUTLINE Plastic surface mounted package



SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
θ	0°	8°

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



中心距: 3.24
脚 宽: 0.55
焊盘宽: 1.00
脚 长: 0.50
焊盘长: 0.80

技术要求:

- 1, 塑封体尺寸: 2.70 X 1.60
- 2: 未注公差为: ± 0.05
- 3, 所有单位: mm