

B5817W THRU B5819W

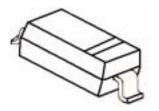
## Schottky Barrier Diode

#### **Features**

- High Current Capability
- Low Forward Voltage Drop

#### **Mechanical Data**

- SOD-123 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Marking: B5817W: SJ

B5818W: SK B5819W: SL

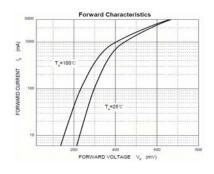
### Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

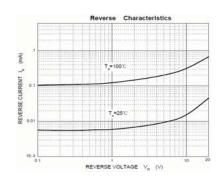
Parameters	Symbol	B5817W	B5818W	B5819W	Unit
Maximum repetitive peak reverse voltage	VRRM	20	30	40	V
Maximum RMS voltage	VRMS	14	21	28	V
Maximum DC blocking voltage	VDC	20	30	40	V
Maximum average forward rectified current	IFM	1.0			А
Peak forward surge current 8.3 ms single half sine-wave	IFSM		9		
Typical Current Squared Time	I <sup>2</sup> T	0.336			A <sup>2</sup> S
Typical thermal resistance	RθJA	250			°C/W
Power Dissipation	PD	500			mW
Storage temperature range	TSTG / TJ	-50-+150			$^{\circ}$

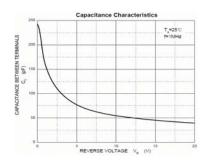
### **Electrical Characteristics** (Ratings at 25°C ambient temperature unless otherwise specified).

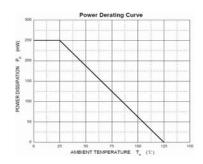
Parameters	Symbol	Test conditions	B5817W	B5818W	B5819W	Unit
		IF = 0.5A	-	0.450	0.450	
Maximum forward voltage	VF	IF = 1.0A IF = 3.0A	0.450 0.750	0.550 0.875	0.600 0.900	V
Maximum reverse breakdown voltage	VR	IR=1mA	20	30	40	V
Maximum reverse current	lR	VR=20V B5817W VR=30V B5818W VR=40V B5819W	1.0			mA
Type junction capacitance	Cj	VR = 4.0V, f = 1MHz	120			pF

### **RATING AND CHARACTERISTICS CURVES (B5817W THRU B5819W)**

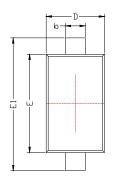






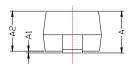


SOD-123 PA CKAGE OUTLINE Plastic surface mounted package

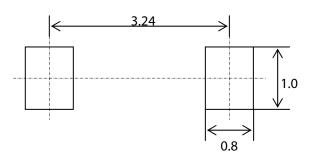




SYMBOL	DIMENSIONS			
2 IMBUL	MIN.	MAX.		
Α	1.050	1.250		
A1	0.000	0.100		
A2	1.050	1.150		
b	0.450	0.650		
	0.080	0.150		
D	1,500	1.700		
E	2.600	2.800		
E1	3.550	3.850		
L	0.500REF			
L1	0.250	0.450		
θ	0*	8°		



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

# PACKAGING OF DIODE

### REEL PACK

PACK	KAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD-	-123	-T	3,000			178	438*438*220	180,000	9.00

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