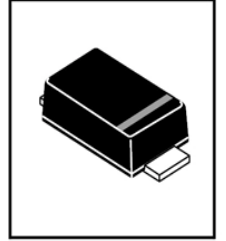
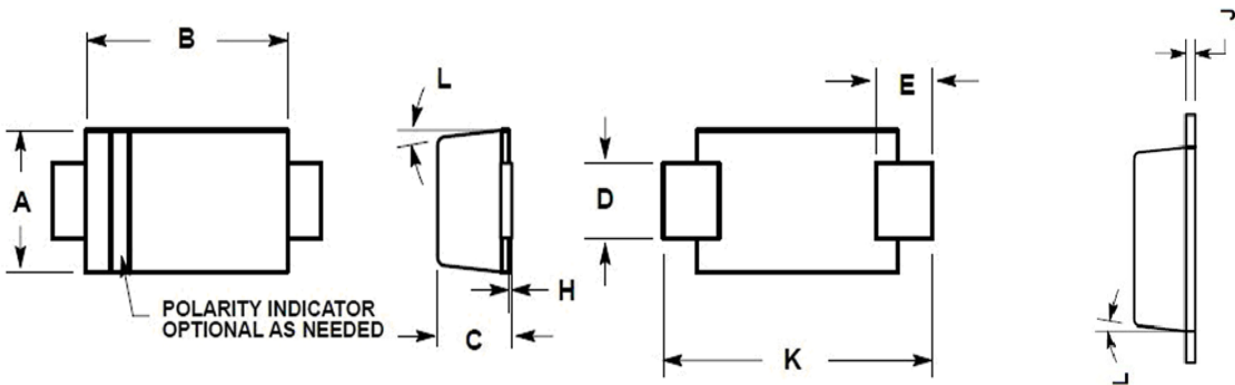


**特性/机械性能:**
**FEATURES/MECHANICAL DATA**

- ◆ Extremely low VF.
- ◆ Low stored charge, majority carrier conduction.
- ◆ Low power loss/high efficient
- ◆ For Use In Low Voltage, High Frequency Inverters.
- ◆ Free Wheeling, And Polarity Protection Applications.



SOD-123

**产品外形尺寸:**
**Product appearance size**


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.50	1.80	0.059	0.071
B	2.50	2.90	0.098	0.114
C	0.90	1.20	0.035	0.047
D	0.70	1.10	0.028	0.043
E	0.50	0.95	0.020	0.037
H	0.00	0.10	0.000	0.004
J	0.10	0.20	0.004	0.008
K	3.40	3.90	0.134	0.154
L	0°	8°	0°	8°

**最大额定值及电气特性**
**MAXIMUM RATINGS AND CHARACTERISTICS**

@ Ta=25°C unless otherwise specified

Parameter	Symbol	B5817W	B5818W	B5819W	Unit
Non-Repetitive Peak reverse voltage	VRSM	24	36	48	V
Peak Repetitive Peak Reverse Voltage	VRRM	20	30	40	V
Working Peak Reverse Voltage	VRWM				
DC Reverse Voltage	VR				
RMS Reverse Voltage	VR(RMS)	14	21	28	V
Average Rectified Output Current	IO	1			A
Peak Forward Surge Current @τ=8.3ms	IFSM	25			A
Power Dissipation	Pd	250			mW
Thermal Resistance Junction to Ambient	RθJA	80			°C/W
Storage Temperature	Tj, Tstg	-65 to +125			°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test Conditions	MIN	MAX	Unit
Reverse breakdown voltage	V(BR)	IR=1mA	20		V
		B5817W	30		
		B5818W B5819W	40		
Reverse voltage leakage current	IR	VR=20V B5817W		1	mA
		VR=30V B5818W			
		VR=40V B5819W			
Forward voltage	VF	B5817W IF=1A		0.45	V
		IF=3A		0.75	
		B5818W IF=1A		0.55	
		IF=3A		0.875	
		B5819W IF=1A		0.6	
		IF=3A		0.9	
Diode capacitance	CD	VR=4V, f=1MHz		120	pF

特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - Forward Current Derating Curve

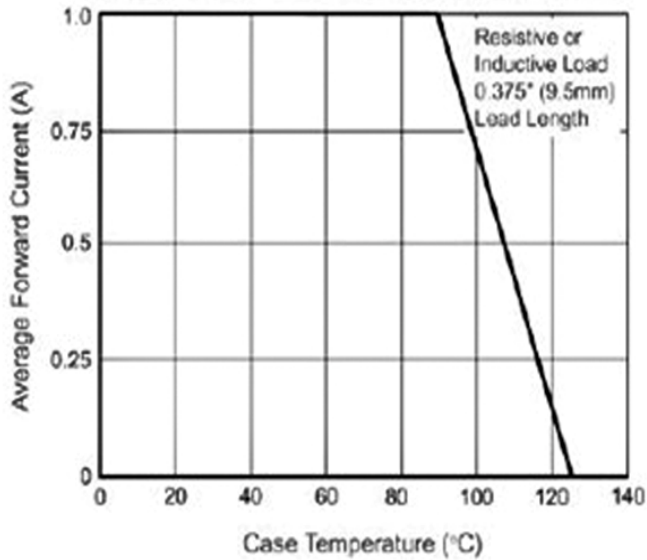


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

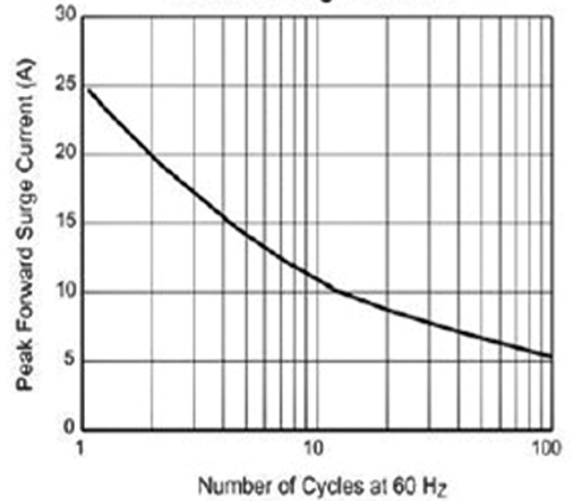


Fig. 3 - Typical Instantaneous Forward Characteristics

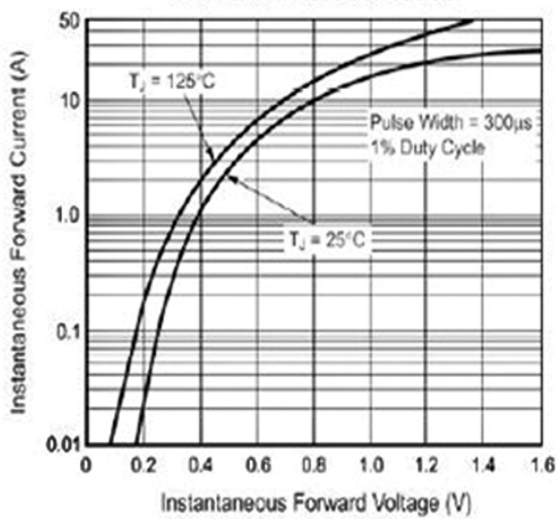
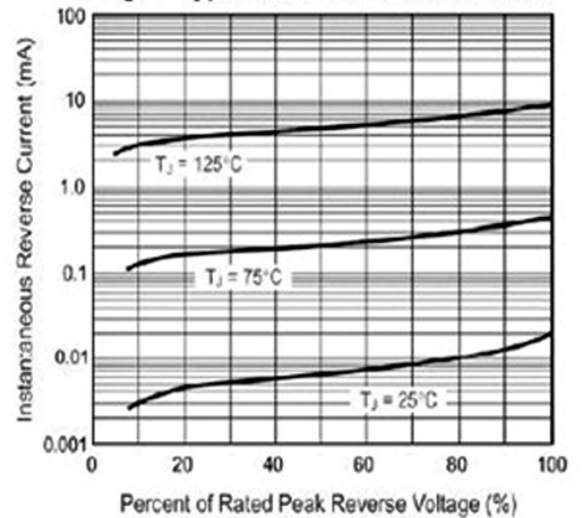


Fig. 4 - Typical Reverse Characteristics



特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

