



**SCHOTTKY BARRIER RECTIFIERS**

**FEATURES**

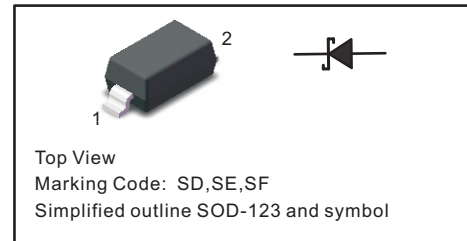
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance
- Also Available in Lead Free Version

**MECHANICAL DATA**

- Case: SOD-123
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 16mg/0.00056oz

**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode



**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	B0520W	B0530W	B0540W	Units	
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	V	
RMS reverse voltage reverse voltage (DC)	$V_{RMS}$	14	21	28	V	
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	V	
Maximum Average Forward Current at Ta=25°C	$I_O$	0.5			A	
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	25			A	
Maximum Instantaneous Forward Voltage	$V_F$	$I_F=0.1A$	0.330	0.375	—	V
		$I_F=0.5A$	0.390	0.430	0.510	
		$I_F=1A$	—	—	0.620	
Reverse current	$I_R$	$V_R=10V$	75	—	—	uA
		$V_R=15V$	—	20	—	
		$V_R=20V$	250	—	10	
		$V_R=30V$	—	130	—	
		$V_R=40V$	—	—	20	
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	200			°C/W	
Junction temperature	$T_j$	-55 ~ +125			°C	
Storage temperature	$T_{stg}$	-55 ~ +150			°C	



Fig.1 Forward Current Derating Curve

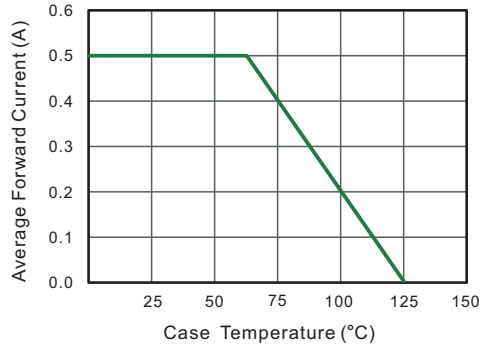


Fig.2 Typical Reverse Characteristics

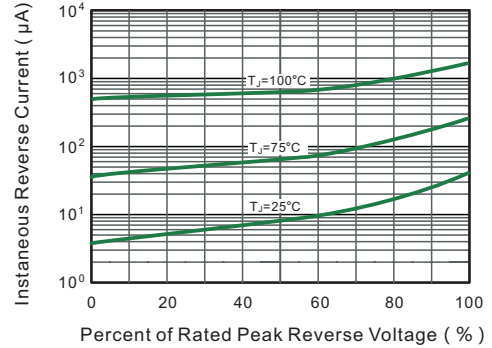


Fig.3 TYPICAL FORWARD VOLTAGE

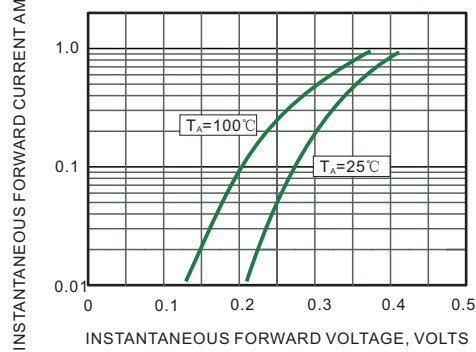


Fig.4 Typical Junction Capacitance

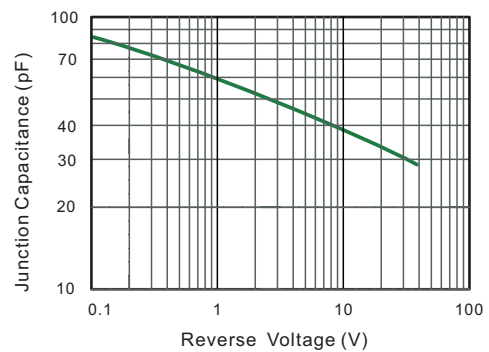


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

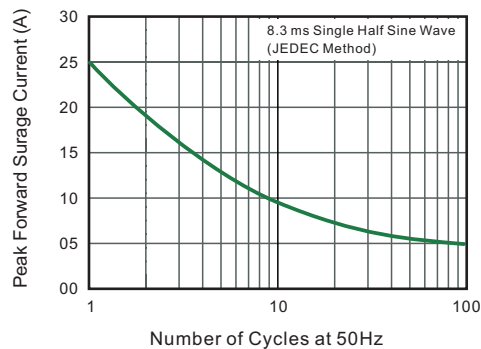
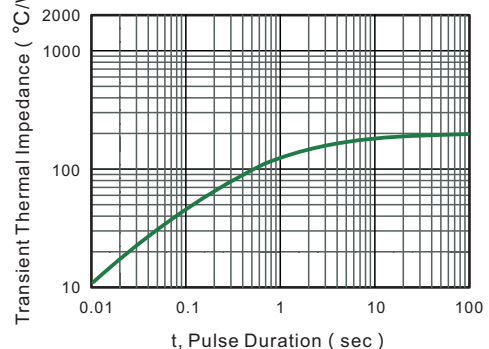


Fig.6 Typical Transient Thermal Impedance

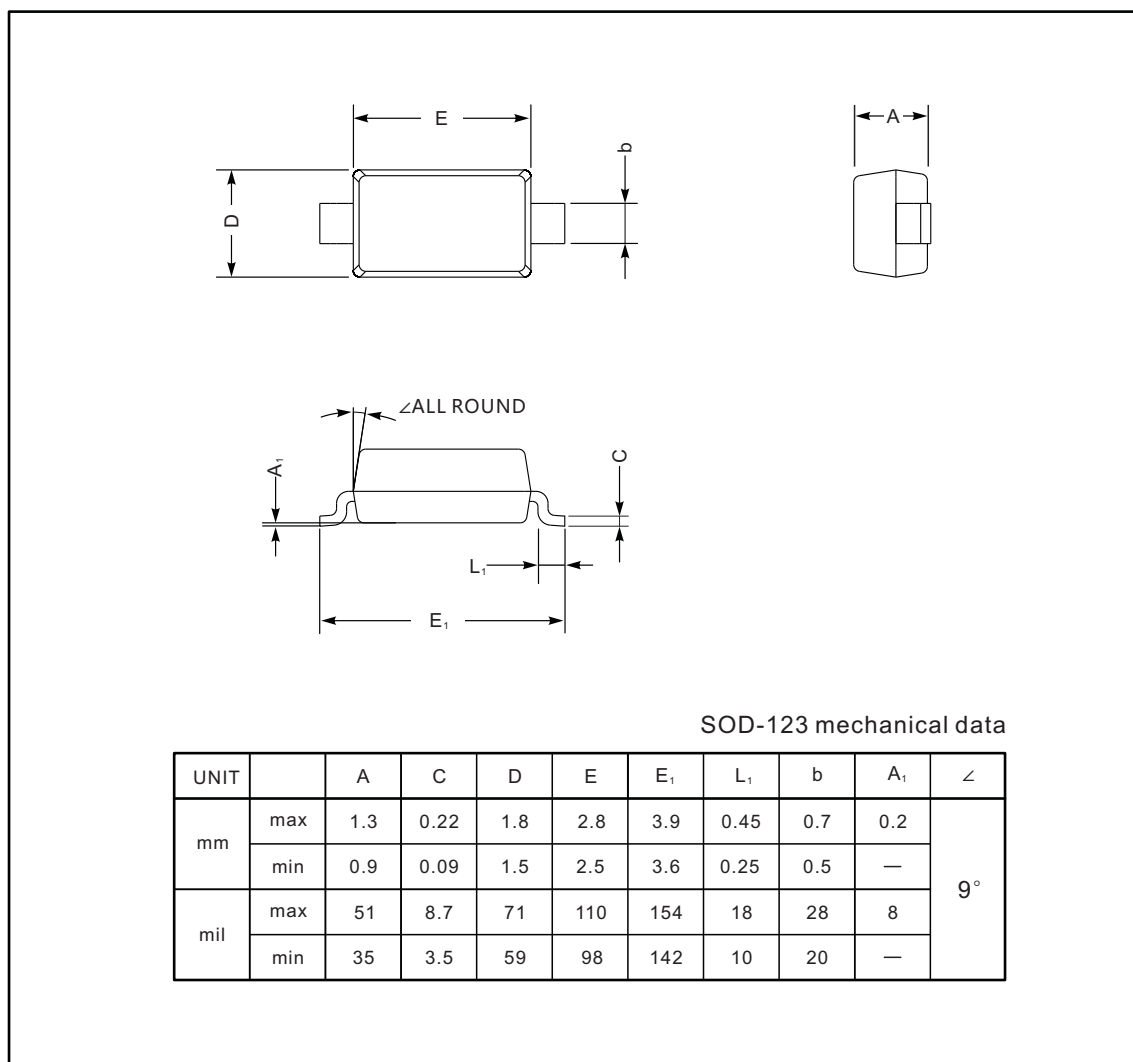




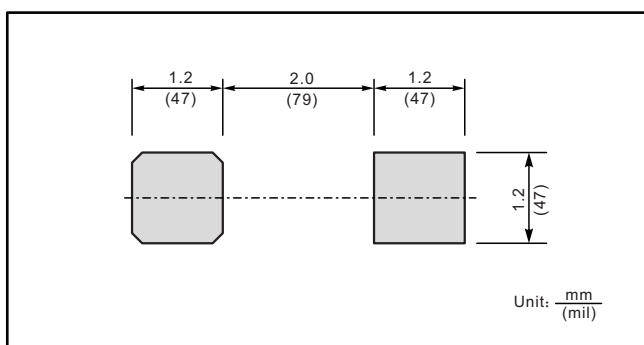
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-123



**The recommended mounting pad size**



**Marking**

Type number	Marking code
B0520W	SD
B0530W	SE
B0540W	SF

单击下面可查看定价，库存，交付和生命周期等信息

[>>JINGDAO\(晶导\)](#)