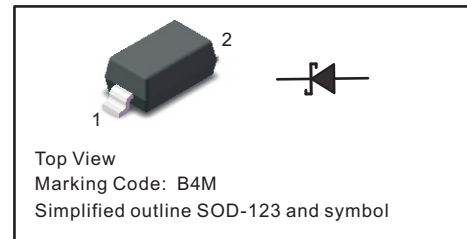


**Schottky Barrier Diode**
**FEATURES**

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Capacitance

**PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode


**MECHANICAL DATA**

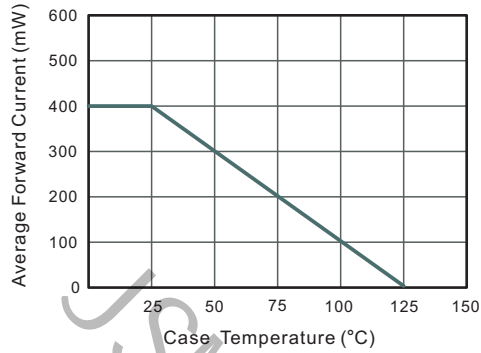
- Case: SOD-123
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 16mg 0.00056oz

**Maximum Ratings and Electrical characteristics**

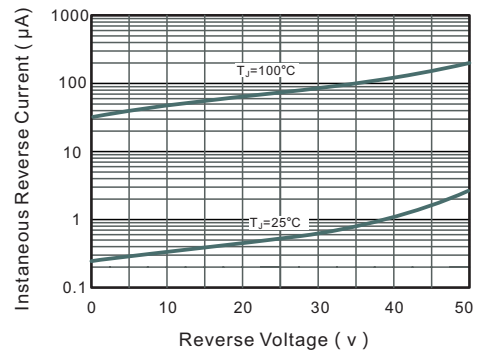
Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	B0540W	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	V
RMS reverse voltage	$V_{RMS}$	28	V
Working Peak Reverse Voltage	$V_{DC}$	40	V
Peak Forward Surge Current, 1.0s single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	1.5	A
Maximum Instantaneous Forward Voltage	$V_F$	$I_F=20mA$	0.37
		$I_F=200mA$	0.60
Power Dissipation	$P_D$	400	mW
Reverse current	$I_R$	$V_R=30V$	5
		$V_R=20V$	—
		$V_R=10V$	—
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	300	°C/W
Reverse voltage	$V_{(BR)}$	40	V
Reverse recovery time	$t_{rr}$	10	ns
Forward Continuous Current	$I_{FM}$	380	mA
Total capacitance	$C_{tot}$	28	pF
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55 ~ +150	°C

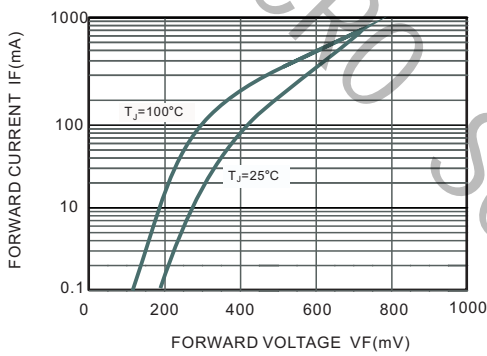
**Fig.1 Forward Current Derating Curve**



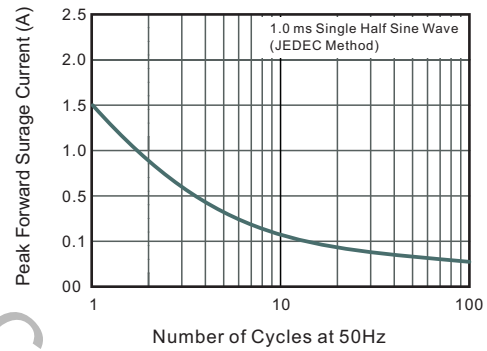
**Fig.2 Typical Reverse Characteristics**



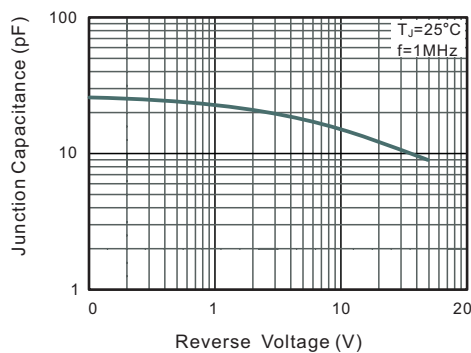
**Fig.3 Forward Characteristics**



**Fig.4 Maximum Non-Repetitive Peak Forward Surge Current**

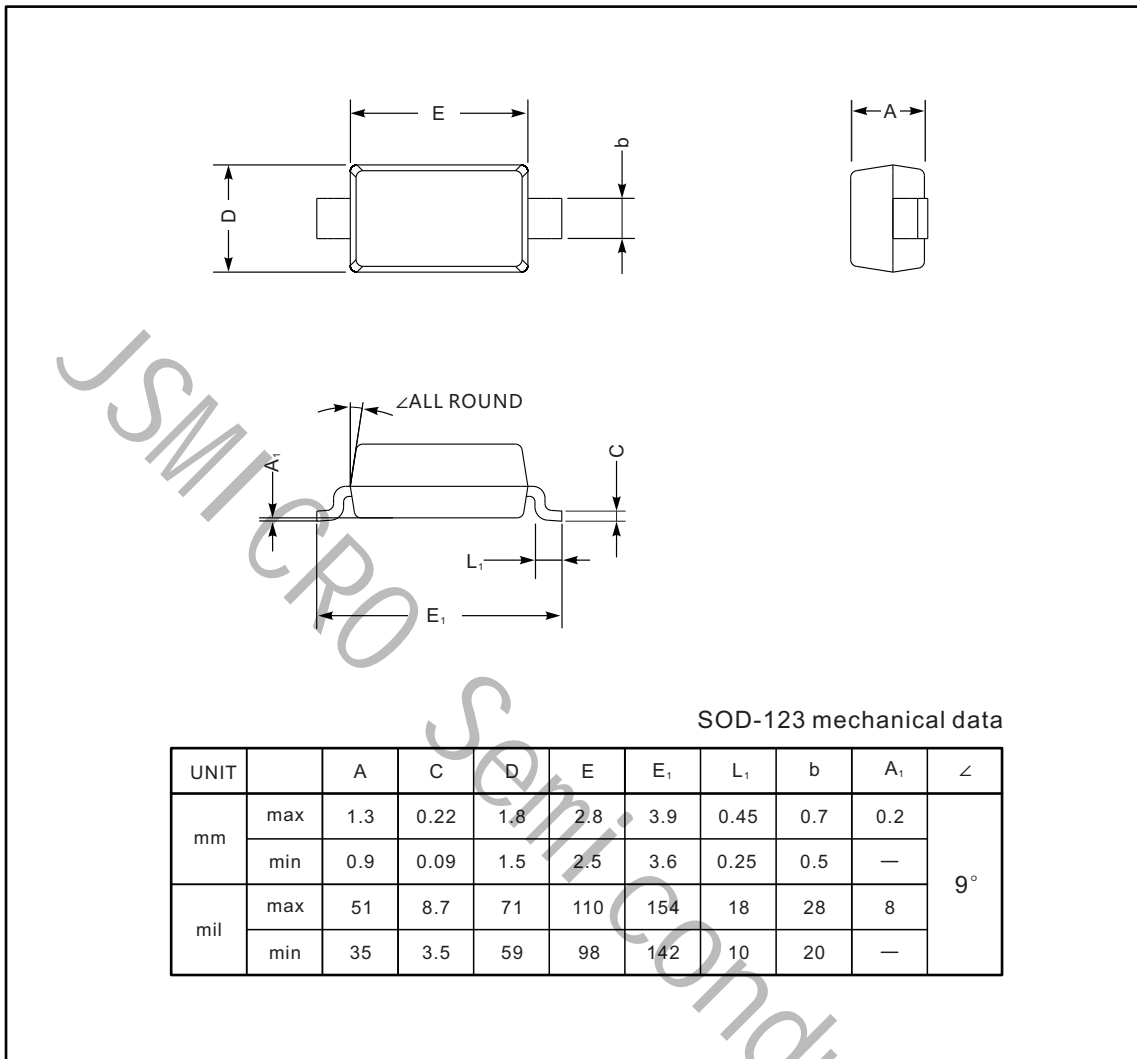


**Fig.5 Typical Junction Capacitance**



**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

**SOD-123**

**The recommended mounting pad size**
