

## SURFACE MOUNT SCHOTTKY BARRIER DIODES

**VOLTAGE** 20 to 40 Volts

**CURRENT** 0.35 Amperes

### FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.

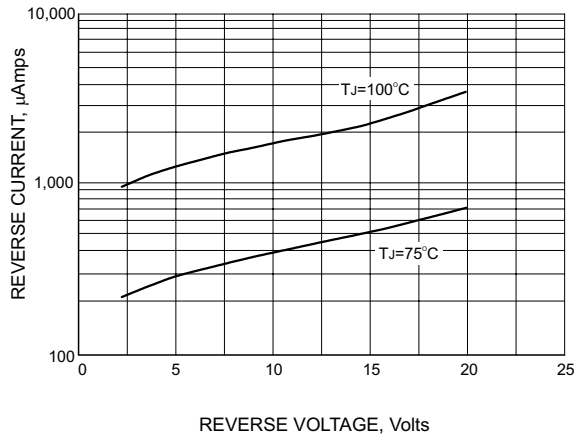
### MECHANICAL DATA

- Case: SOD-123, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram Below
- Approx. Weight: 0.008 grams
- Mounting Position: Any

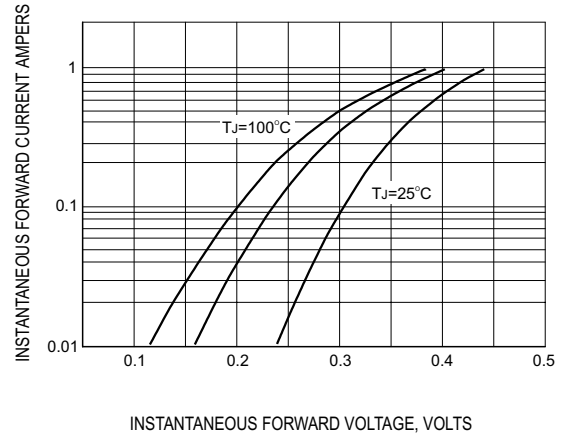


### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

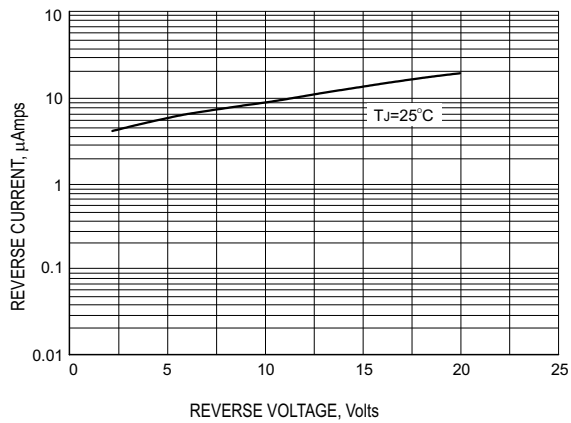
Parameter	Symbol	SD103AW	SD103BW	SD103CW	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	30	20	V
Maximum RMS Voltage	$V_{RMS}$	28	21	14	V
Maximum DC Blocking Voltage	$V_{DC}$	40	30	20	V
Maximum Average Forward Current at $T_a=25^{\circ}C$	$I_{AV}$	0.35	0.35	0.35	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	2.0	2.0	2.0	A
Maximum Instantaneous Forward Voltage at 0.2A 0.02A	$V_F$	0.60 0.37	0.60 0.37	0.60 0.37	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.005	0.005	0.005	mA
Maximum Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$		215 300		$^{\circ}C / W$
Operating Junction Temperature Range	$T_J$		-55 TO +125		$^{\circ}C$
Storage Temperature Range	$T_{STG}$		-55 TO +125		$^{\circ}C$



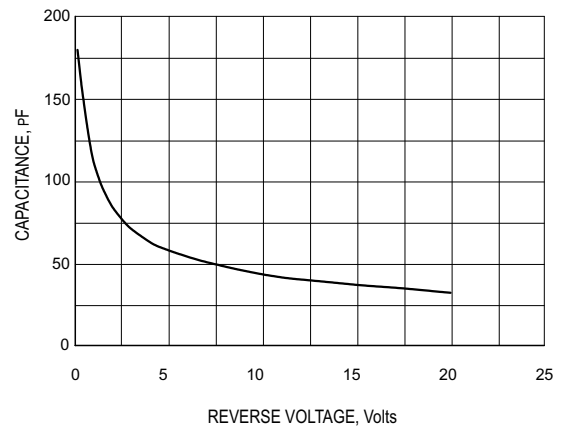
TYPICAL REVERSE CURRENT



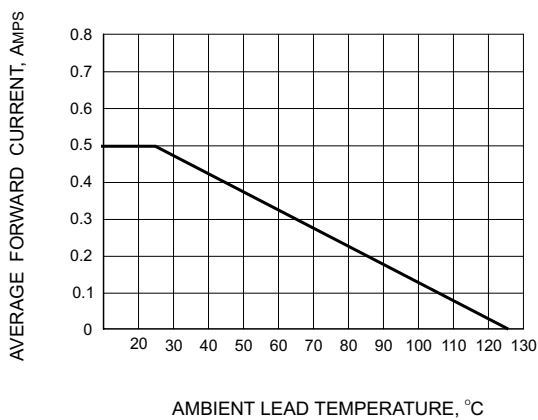
TYPICAL FORWARD VOLTAGE



TYPICAL REVERSE CURRENT

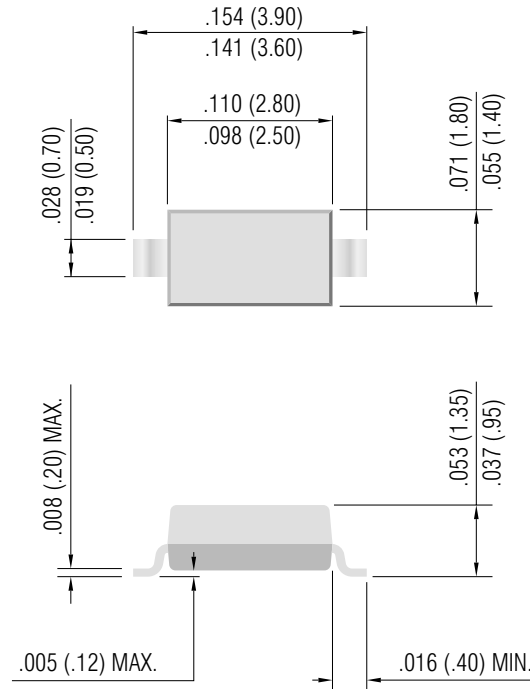


TYPICAL JUNCTION CAPACITANCE



CURRENT DERATING

**SOD-123**



Dimensions in inches and (millimeters)

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**PanJit International Inc.**

TEL:886-7-6213121 Fax:886-7-6213129 Internet: <http://www.panjit.com.tw> email: [sales@panjit.com.tw](mailto:sales@panjit.com.tw)