

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE 20 to 40 Volts

CURRENT 0.5 Amperes

FEATURES

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

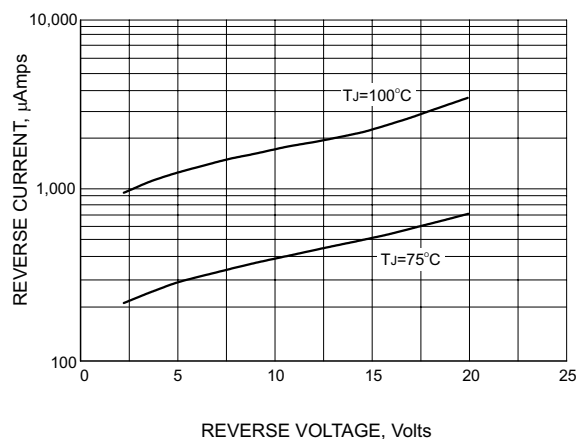
MECHANICAL DATA

- 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

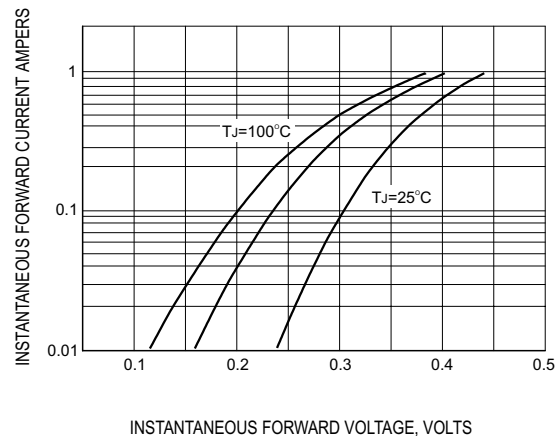


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

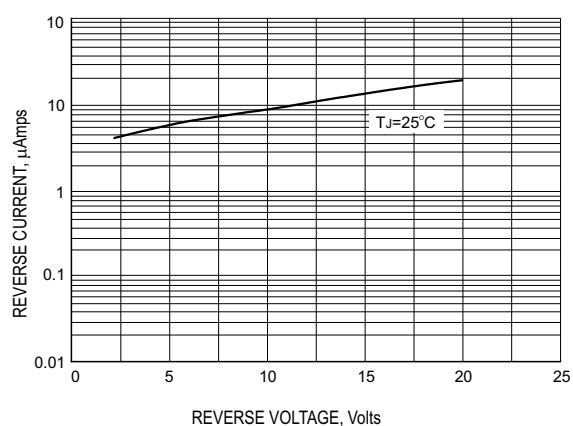
Parameter	Symbol	SS0520	SS0530	SS0540	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	V
Maximum Average Forward Current at $T_a=25^{\circ}\text{C}$	I_{AV}	0.5	0.5	0.5	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	5.5	5.5	5.5	A
Maximum Instantaneous Forward Voltage at 0.1A 0.5A	V_F	0.3 0.385	0.375 0.430	- 0.51	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.075 @ $V_R=10$ 0.25 @ $V_R=20$	0.02 @ $V_R=15$ 0.13 @ $V_R=30$	0.01 @ $V_R=20$ 0.02 @ $V_R=40$	mA
Maximum Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$		150 206		$^{\circ}\text{C} / \text{W}$
Operating Junction Temperature Range	T_J		-55 TO +125		$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}		-55 TO +125		$^{\circ}\text{C}$



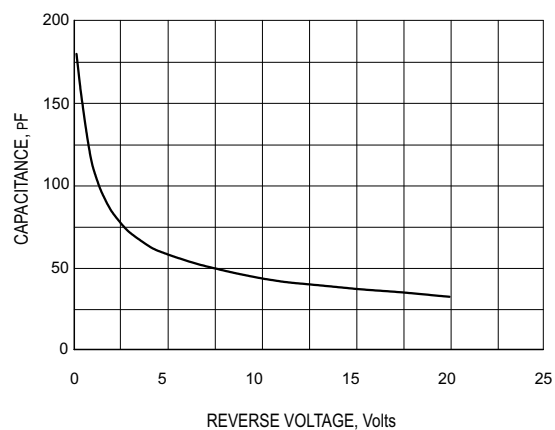
TYPICAL REVERSE CURRENT



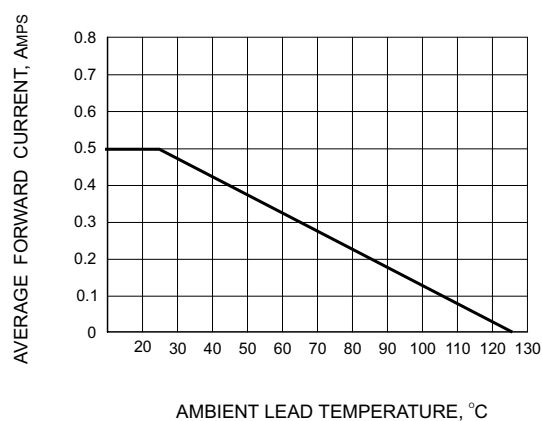
TYPICAL FORWARD VOLTAGE



TYPICAL REVERSE CURRENT

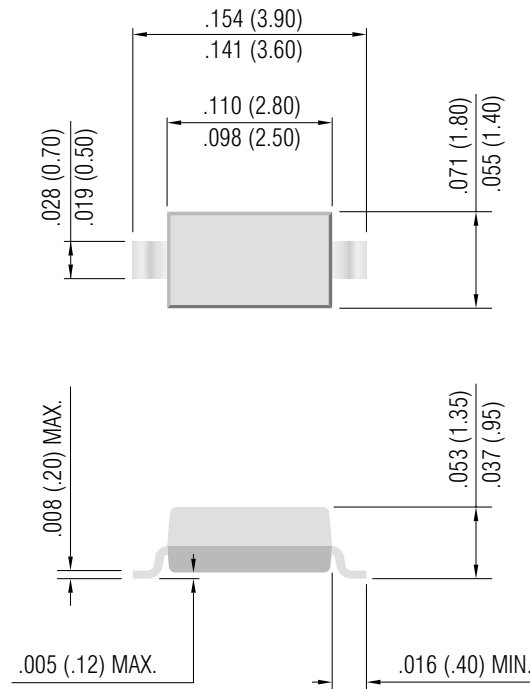


TYPICAL JUNCTION CAPACITANCE



CURRENT DERATING

SOD-123



Dimensions in inches and (millimeters)

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