

**SURFACE MOUNT SCHOTTKY BARRIER DIODES**
**VOLTAGE** 20 to 40 Volts

**CURRENT** 0.5 Amperes

**FEATURES**

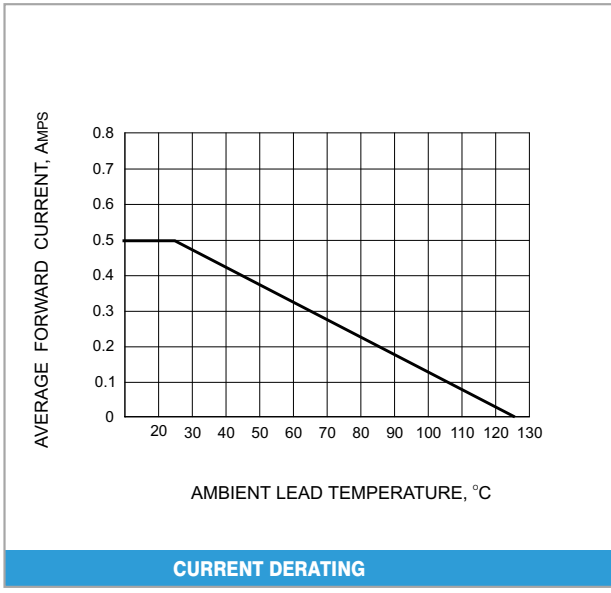
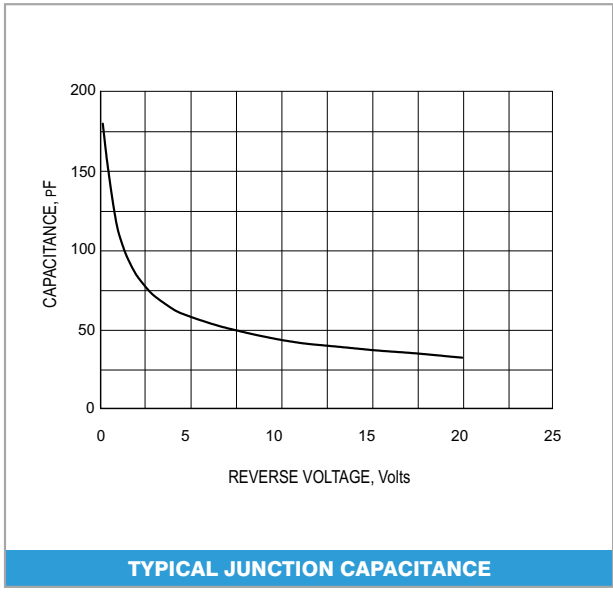
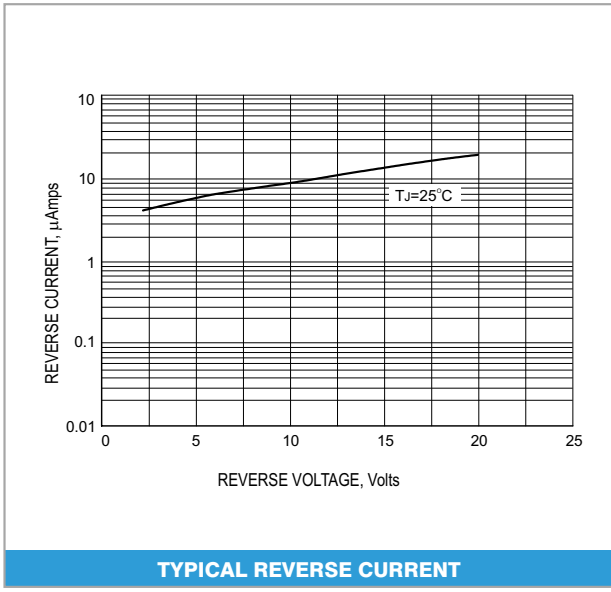
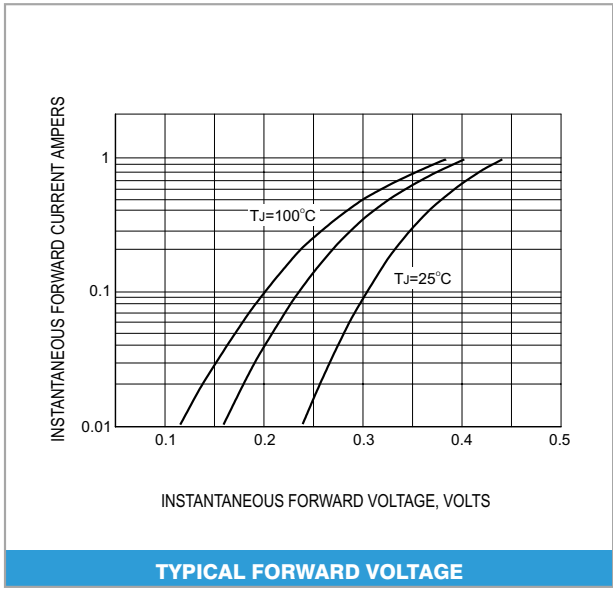
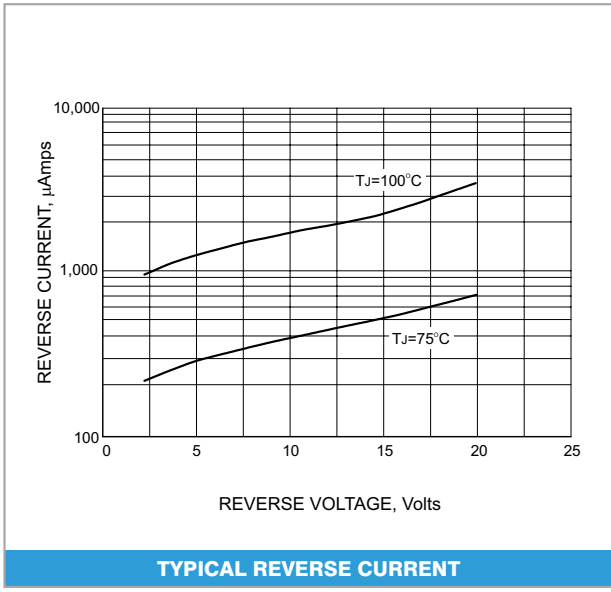
- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.

**MECHANICAL DATA**

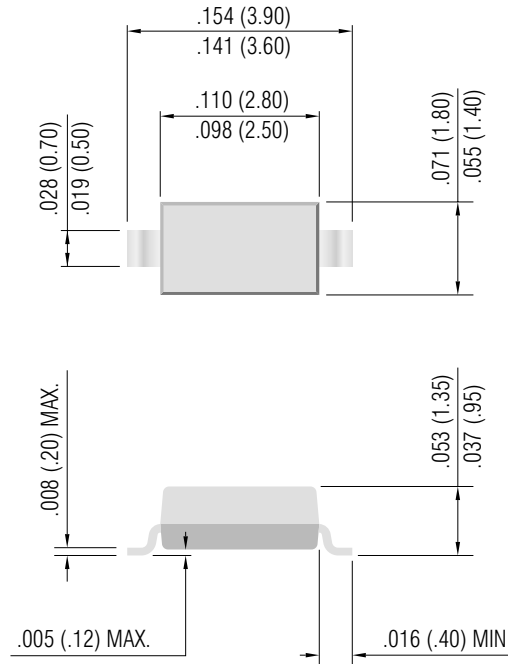
- Case: SOD-123, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram Below
- Approx. Weight: 0.008 grams
- Mounting Position: Any


**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 $T_a=25^{\circ}C$	$I_{AV}$	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		$^{\circ}C / W$
Operating Junction Temperature Range	$T_J$		-55 TO +125		$^{\circ}C$
Storage Temperature Range	$T_{STG}$		-55 TO +125		$^{\circ}C$



**SOD-123**



Dimensions in inches and (millimeters)

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