

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE
30 Volts
CURRENT
0.2 Amperes

FEATURES

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

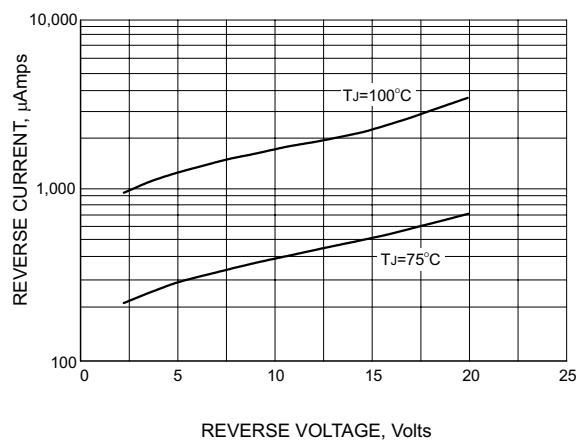
MECHANICAL DATA

- 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

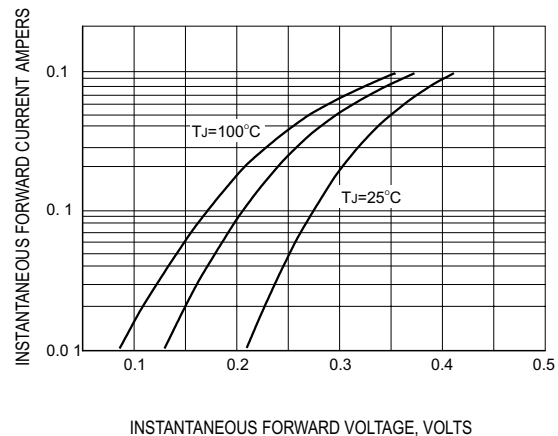


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

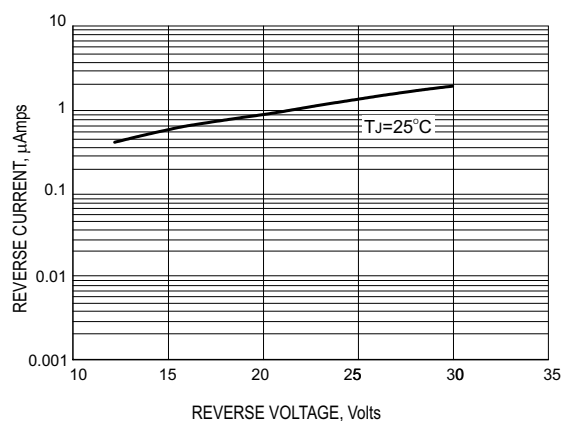
Parameter	Symbol	BAT42W	BAT43W	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	30	V
Maximum RMS Voltage	V_{RMS}	21	21	V
Maximum DC Blocking Voltage	V_{DC}	30	30	V
Maximum Average Forward Current at $T_a=25^{\circ}\text{C}$	I_{AV}	0.2	0.2	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	4.0	4.0	A
Maximum Instantaneous Forward Voltage	V_F	0.4 / 0.01A 1.0 / 0.2A	0.33 / 0.02A 1.0 / 0.2A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.005	0.005	mA
Maximum Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$	215 300	215 300	$^{\circ}\text{C} / \text{W}$
Operating Junction Temperature Range	T_J	-55 TO +125		$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 TO +125		$^{\circ}\text{C}$



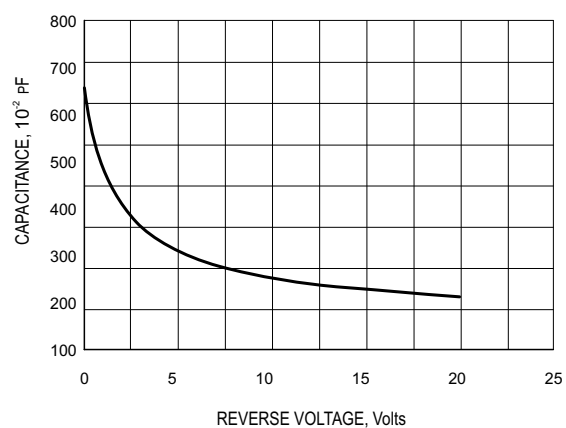
TYPICAL REVERSE CURRENT



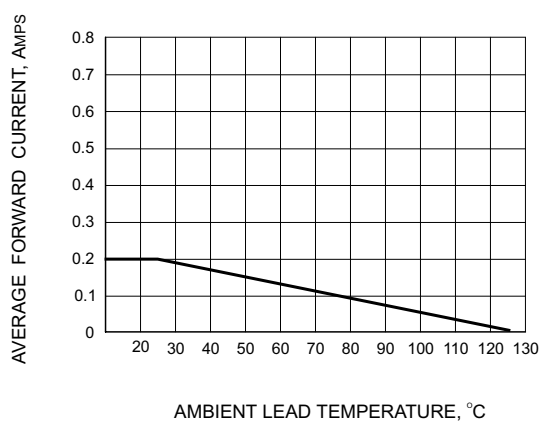
TYPICAL FORWARD VOLTAGE



TYPICAL REVERSE CURRENT

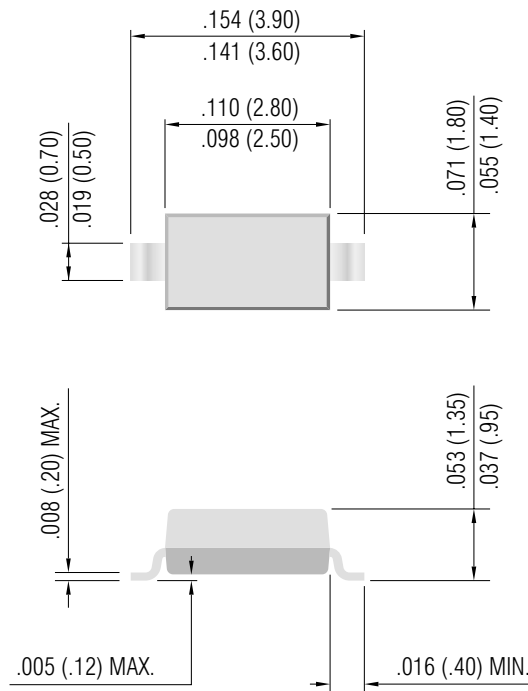


TYPICAL JUNCTION CAPACITANCE



CURRENT DERATING

SOD-123



Dimensions in inches and (millimeters)

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