

## 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.

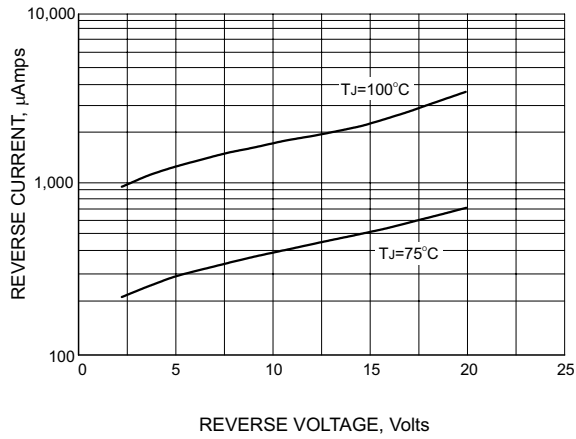
### MECHANICAL DATA

- 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

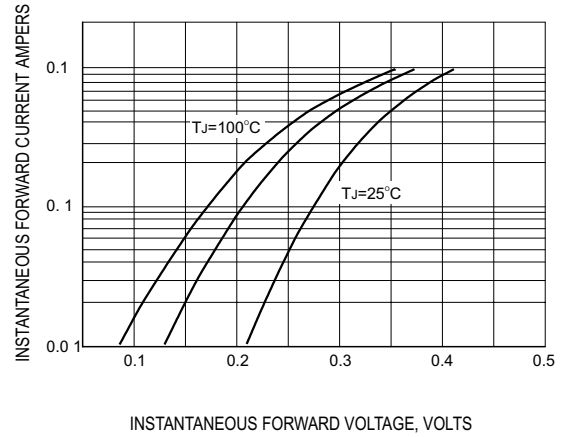


### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

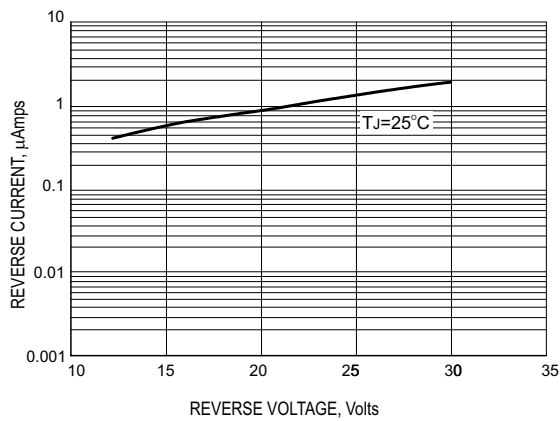
Parameter	Symbol	BAT42W	BAT43W	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	30	V
Maximum RMS Voltage	V <sub>RMS</sub>	21	21	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	30	V
Maximum Average Forward Current at Ta=25°C	I <sub>AV</sub>	0.2	0.2	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	4.0	4.0	A
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	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 <sub>R</sub>	0.005	0.005	mA
Maximum Thermal Resistance	R <sub>θJL</sub> R <sub>θJA</sub>	215 300	215 300	°C / W
Operating Junction Temperature Range	T <sub>J</sub>	-55 TO +125		°C
Storage Temperature Range	T <sub>STG</sub>	-55 TO +125		°C



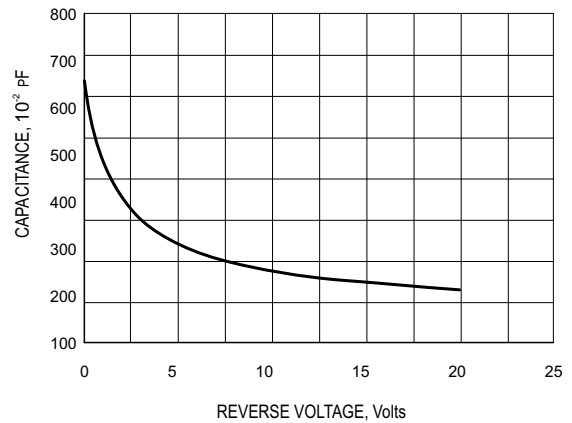
TYPICAL REVERSE CURRENT



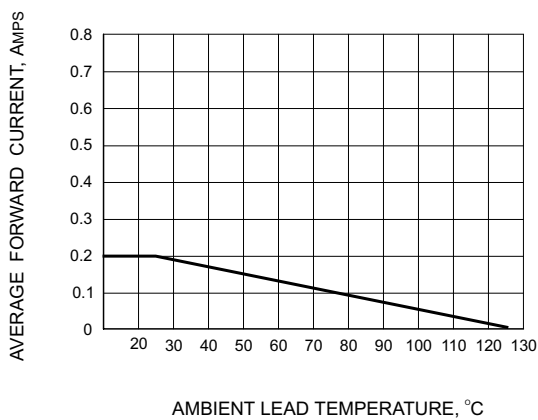
TYPICAL FORWARD VOLTAGE



TYPICAL REVERSE CURRENT

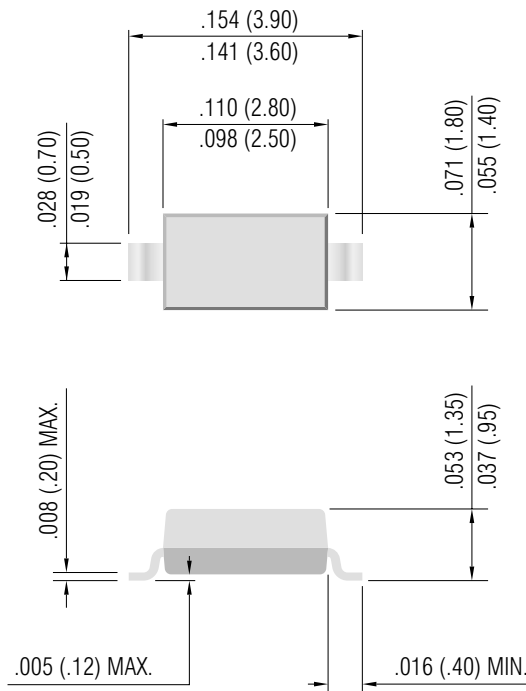


TYPICAL JUNCTION CAPACITANCE



CURRENT DERATING

**SOD-123**



Dimensions in inches and (millimeters)

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