

**SURFACE MOUNT SCHOTTKY BARRIER****VOLTAGE** **30 Volts****CURRENT** **0.2 Ampers****PACKAGE** **SOD-323****FEATURES**

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

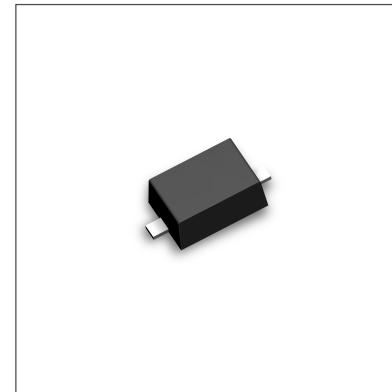
**MECHANICAL DATA**

Case: SOD-323, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 0.008 gram

Marking: L2, L3, L4

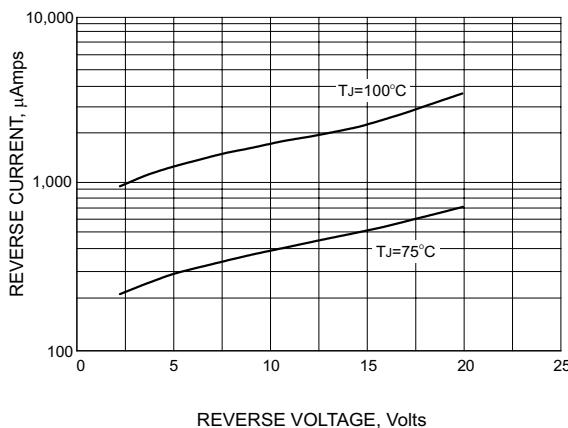
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

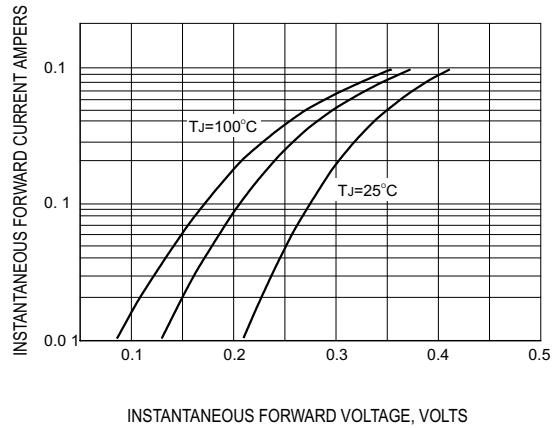
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

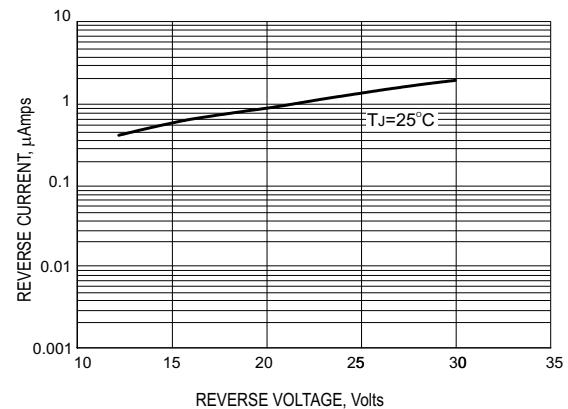
Parameter	Symbol	BAT42WS	BAT43WS	BAT54WS	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	30	30	V
Maximum Average Forward Current at $T_a=25^\circ C$	$I_o$	0.2	0.2	0.2	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	4.0	4.0	0.6	A
Maximum Instantaneous Forward Voltage	$V_F$	0.4 @ $I_F=0.01A$ 1.0 @ $I_F=0.2A$	0.33 @ $I_F=0.002A$ 1.0 @ $I_F=0.2A$	0.32 @ $I_F=0.001A$ 1.0 @ $I_F=0.1A$	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_r$	0.5 @ $V_R=30V$	0.5 @ $V_R=30V$	2.0 @ $V_R=25V$	$\mu A$
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$		635		$^\circ C / W$
Operating Junction Temperature Range	$T_J$		-55 TO +125		$^\circ C$
Storage Temperature Range	$T_{STG}$		-55 TO +125		$^\circ C$



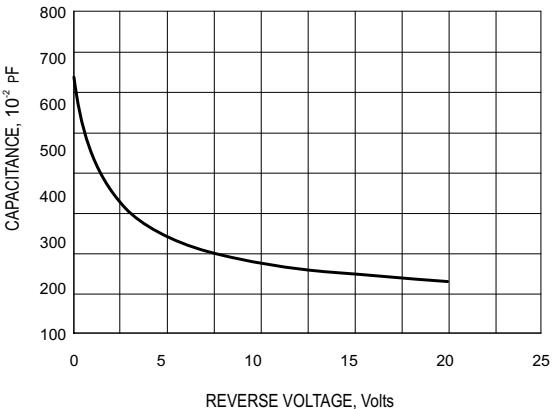
TYPICAL REVERSE CURRENT



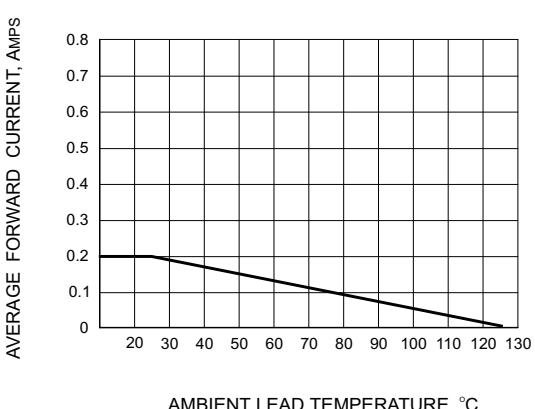
TYPICAL FORWARD VOLTAGE



TYPICAL REVERSE CURRENT



TYPICAL JUNCTION CAPACITANCE

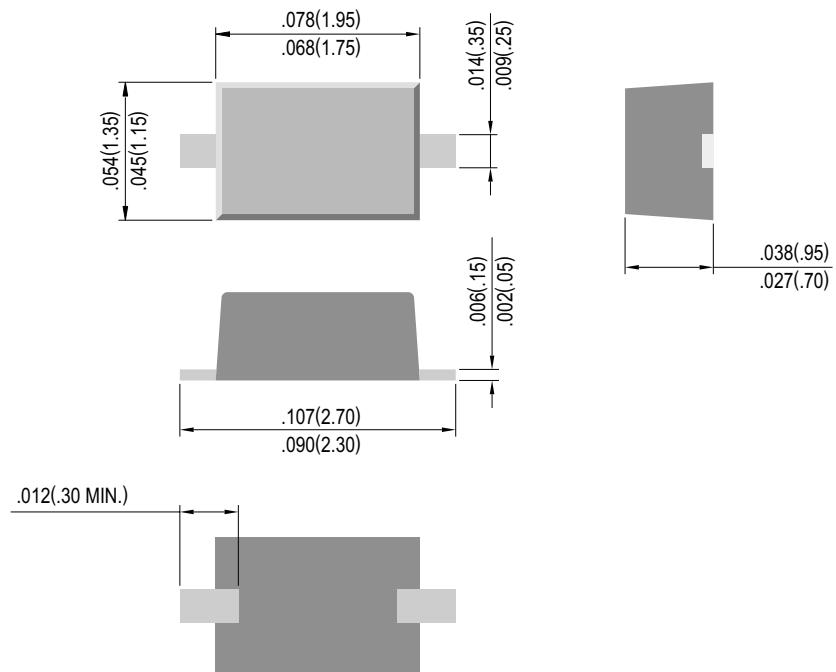


CURRENT DERATING

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 SOD-323
 

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