

## SURFACE MOUNT SCHOTTKY BARRIER

**VOLTAGE** 20 - 40 Volts

**CURRENT** 0.35 Amperes

**PACKAGE** SOD-323

### FEATURES

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

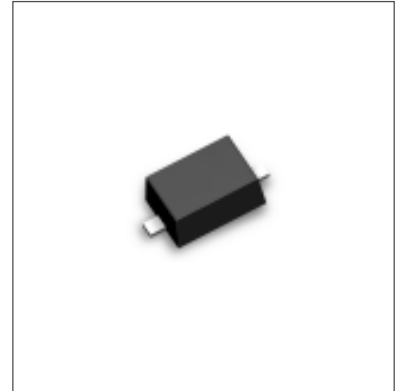
### MECHANICAL DATA

Case: SOD-323, Plastic

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

Approx. Weight: 0.008 gram

Marking: S6, S7, S8



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

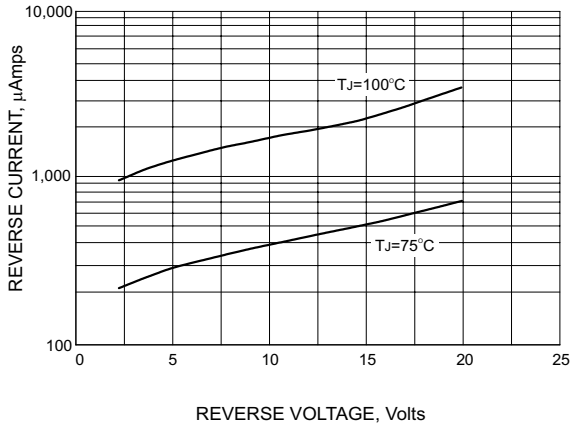
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

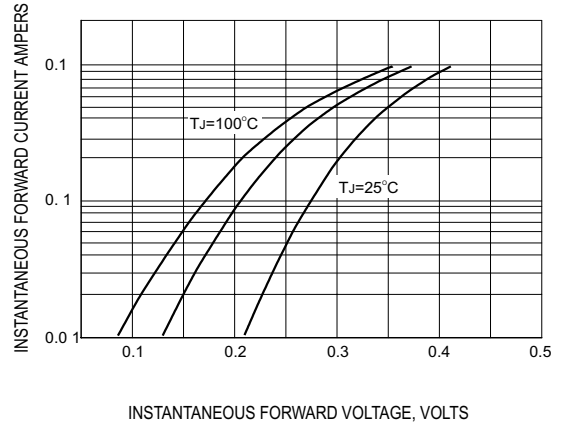
Parameter	Symbol	SD103AWS	SD103BWS	SD103CWS	Units
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	40	30	20	V
Maximum Average Forward Current at Ta=25°C	I <sub>o</sub>	0.35	0.35	0.35	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	2.0	2.0	2.0	A
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.37 @ I <sub>F</sub> =0.02A 0.6 @ I <sub>F</sub> =0.2A	0.37 @ I <sub>F</sub> =0.02A 0.6 @ I <sub>F</sub> =0.2A	0.37 @ I <sub>F</sub> =0.02A 0.6 @ I <sub>F</sub> =0.2A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.005 @ V <sub>R</sub> =30V	0.005 @ V <sub>R</sub> =20V	0.005 @ V <sub>R</sub> =10V	mA
Thermal Resistance, Junction to Ambient Air	R <sub>θJA</sub>	635			°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



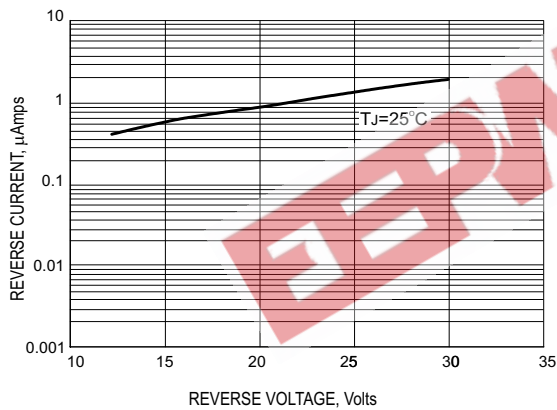
# RATING and CHARACTERISTIC CURVES



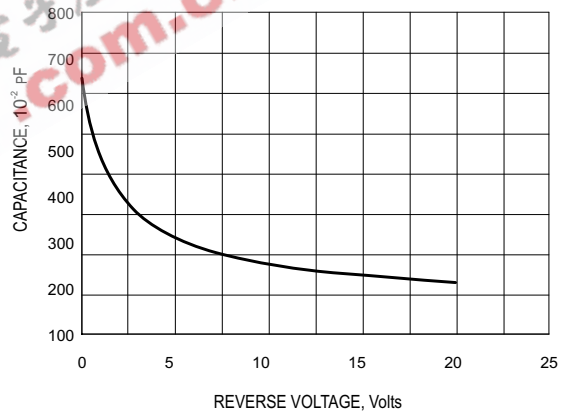
TYPICAL REVERSE CURRENT



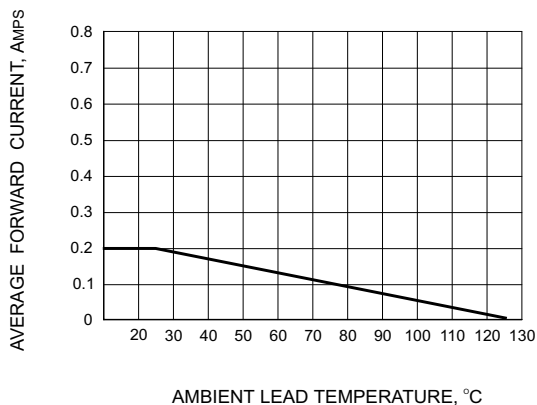
TYPICAL FORWARD VOLTAGE



TYPICAL REVERSE CURRENT

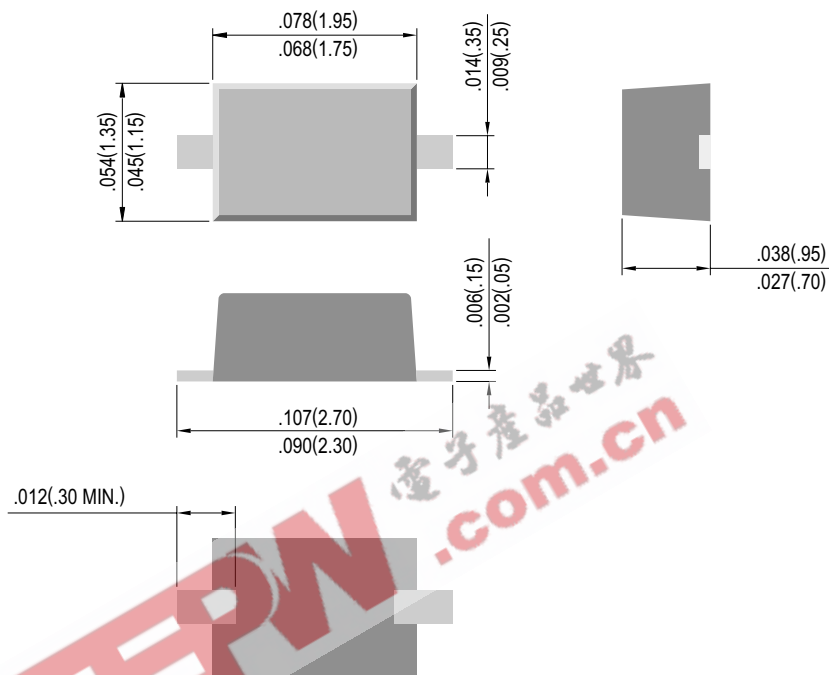


TYPICAL JUNCTION CAPACITANCE



CURRENT DERATING

**SOD-323**



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