

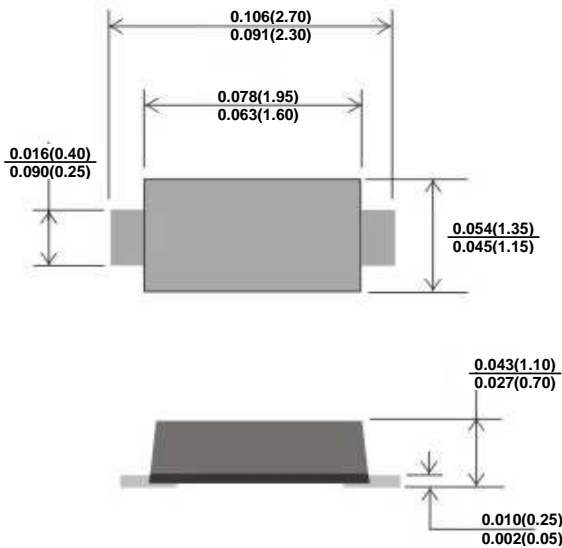


SD103AWS THRU SD103CWS

SURFACE MOUNT SCHOTTKY BARRIER

Reverse Voltage - 20 to 20 Volts Forward Current - 0.35 Ampere

SOD-323L



Dimensions in inches and (millimeters)

FEATURES

- ◆ Fast switching speed
- ◆ Low turn-on voltage
- ◆ PN Junction Guard Ring for Transient and ESD Protection
- ◆ In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

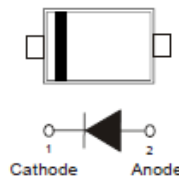
Case: JEDEC SOD-323L, Molded plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0041 gram

Polarity: Color band denotes cathode end

Marking codes : S6, S7, S8



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOLS	SD103AWS	SD103BWS	SD103CWS	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	30	20	Volts
Maximum RMS Voltage	V_{RMS}	28	21	14	Volts
Maximum DC Blocking Voltage	V_{DC}	40	30	20	Volts
Maximum Average Forward Current at $T_A=75^\circ\text{C}$	$I_{F(AV)}$	0.35			Amp
Peak forward Surge Current, 10us (JEDEC method)	I_{FSM}	2.0			Amps
Maximum Instantaneous Forward Voltage at $I_F=20\text{mA}$ $I_F=200\text{mA}$	V_F	0.37 0.60			Volts
Maximum Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$	I_R	5.0			μA
Junction Capacitance :at $V_R=0\text{V}$	C_J	50			pF
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	300			$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125			$^\circ\text{C}$



SD103AWS THRU SD103CWS

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

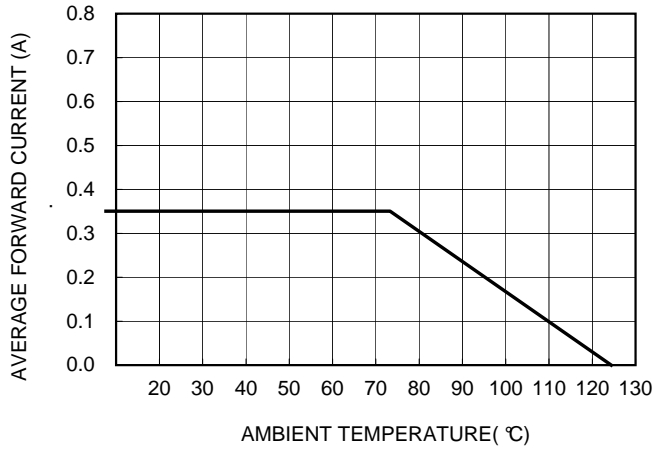


FIG. 2-TYPICAL JUNCTION RATINGS

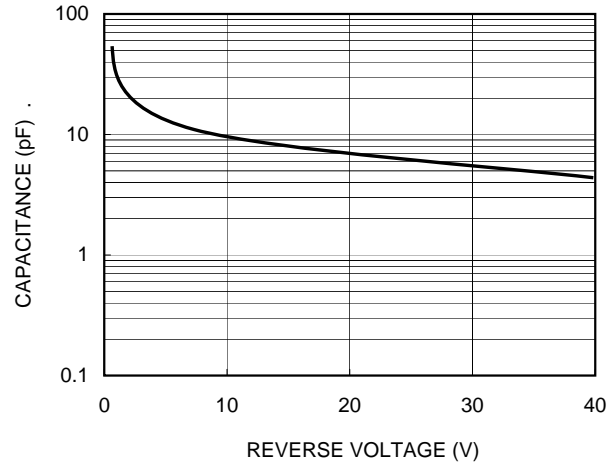


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

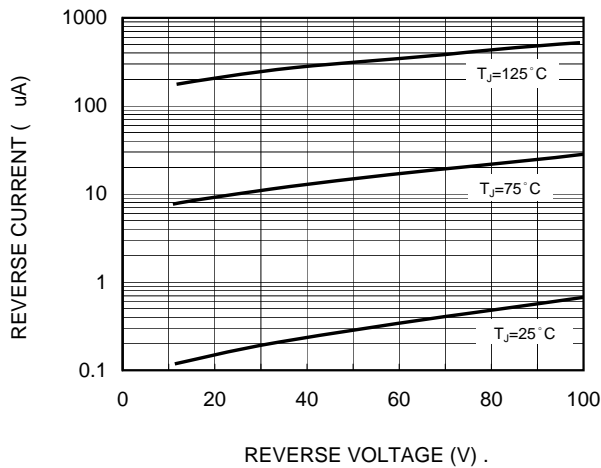
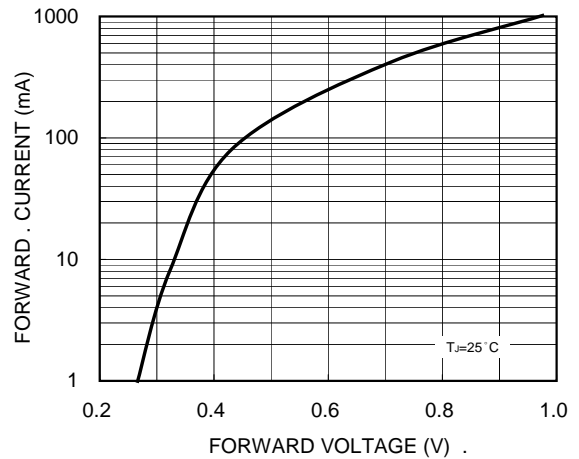


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



SOD-323L PACKAGE MOUNTING PAD LAYOUT

UNIT: inch(mm)

