

## SD103AWS~SD103CWS

### SURFACE MOUNT SCHOTTKY BARRIER

**VOLTAGE** 20 to 40 Volts **CURRENT** 0.35 Amperes

SOD-323

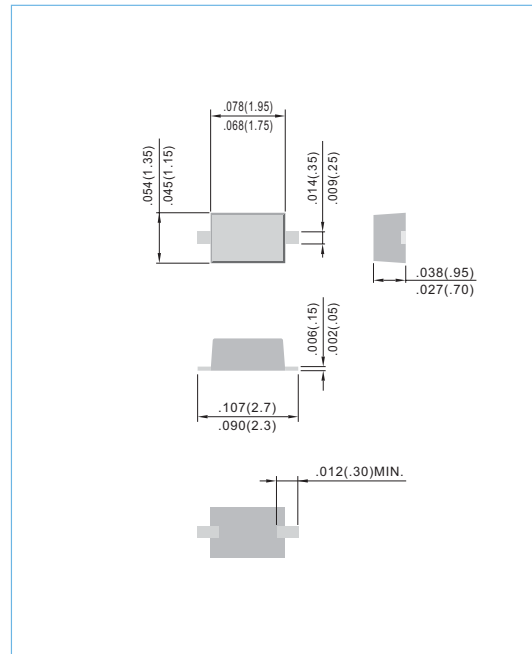
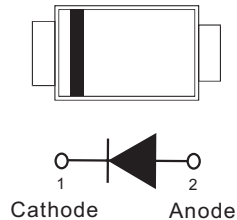
Unit: inch (mm)

#### FEATURES

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

#### MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.01 gram



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

Parameter	Symbol	SD103AWS	SD103BWS	SD103CWS	Units
Marking Code	-	S6	S7	S8	-
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	30	20	V
Maximum RMS Voltage	$V_{RMS}$	28	21	14	V
Maximum DC Blocking Voltage	$V_{DC}$	40	30	20	V
Maximum Average Forward Current at $T_a=75^{\circ}\text{C}$	$I_{F(AV)}$	0.35			A
Peak Forward Surge Current at 10uS	$I_{FSM}$	2.0			A
Maximum Instantaneous Forward Voltage	$V_F$	0.37@0.02A 0.60@0.2A			V
Maximum Reverse Current	$I_R$	5.0@30V	5.0@20V	5.0@10V	uA
Typical Junction Capacitance at $V_R=0\text{V}$	$C_J$	50			pF
Maximum Thermal Resistance	$R_{\theta JA}$	300			$^{\circ}\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	$T_J$	-55 to +125			$^{\circ}\text{C}$

## SD103AWS~SD103CWS

### RATING AND CHARACTERISTIC CURVES

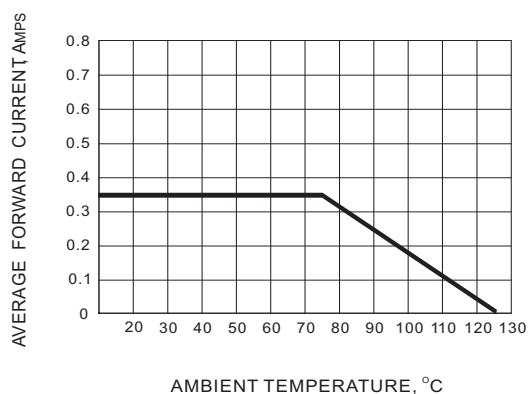


Fig.1 FORWARD CURRENT DERATING CURVE

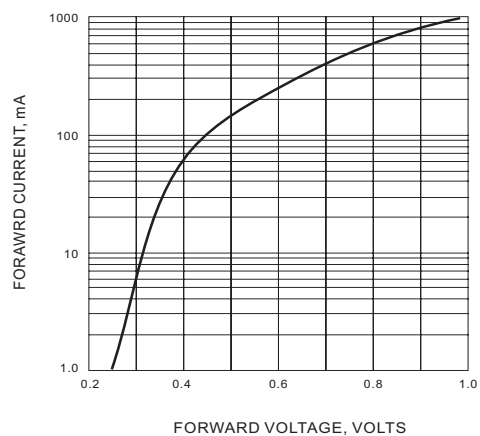


Fig.2 TYPICAL FORWARD CHARACTERISTIC

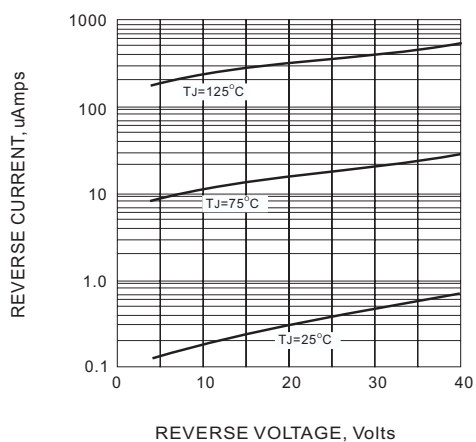


Fig.3 TYPICAL REVERSE CURRENT

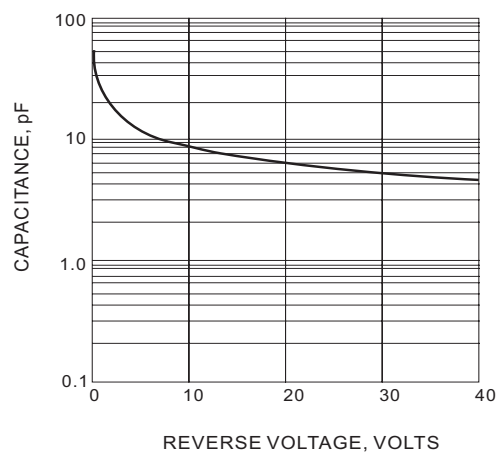
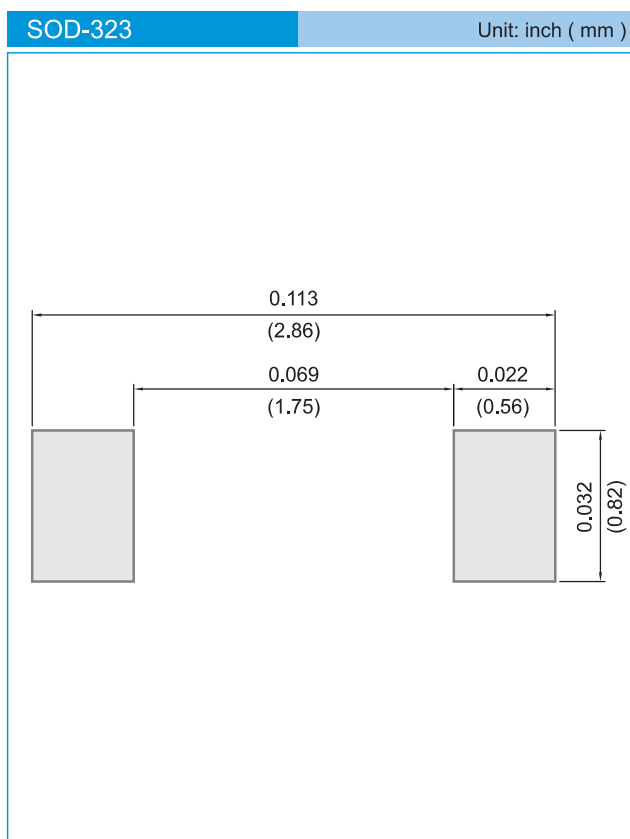


Fig.4 TYPICAL JUNCTION CAPACITANCE

## SD103AWS~SD103CWS

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 5K per 7" plastic Reel

### LEGAL STATEMENT

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