

SS1030 SERIES

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 30~60 Volt **CURRENT** 1 Ampere

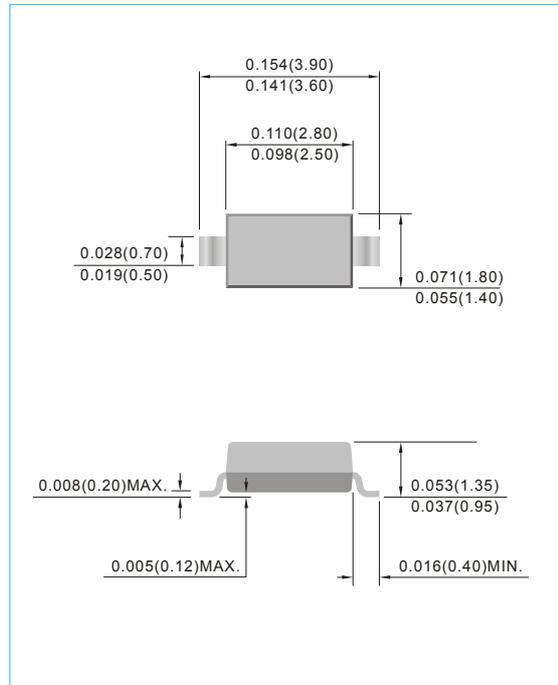
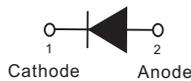
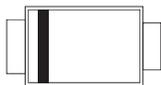
SOD-123 Unit : inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC.
- High conductor
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-123, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0004 ounces, 0.01 grams
- Polarity: Color band denotes cathode end



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	SS1030	SS1040	SS1060	Units
Marking		GS	G5	G60	
Maximum Recurrent Reverse Voltage	V_{RRM}	30	40	60	V
Maximum RMS Voltage	V_{RMS}	21	28	42	V
Maximum DC Blocking Voltage	V_{DC}	30	40	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1			A
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	30			A
Maximum Forward Voltage at 1A	V_F	0.48	0.55	0.7	V
Maximum DC Reverse Current	I_R	$V_R=15V$ 20 $V_R=30V$ 50 $V_R=40V$ - $V_R=60V$ -	- - 50 -	- - - 30	μA
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	200			$^{\circ}C/W$
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	380			$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125			$^{\circ}C$

Note : 1.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

2.Mounted on a FR4 PCB, single-sided copper, mini pad.

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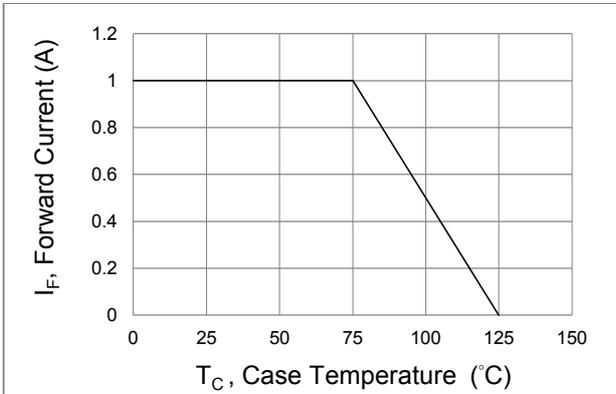


Fig.1 Forward Current Derating Curve

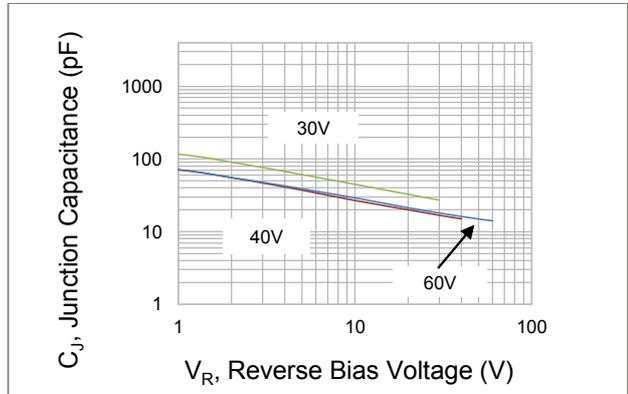


Fig.2 Typical Junction Capacitance

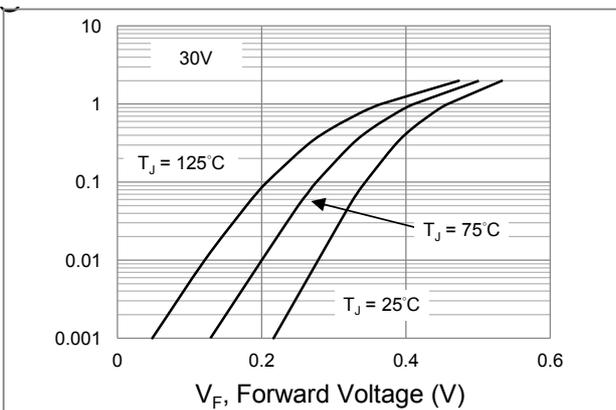


Fig.3 Typical Forward Characteristics

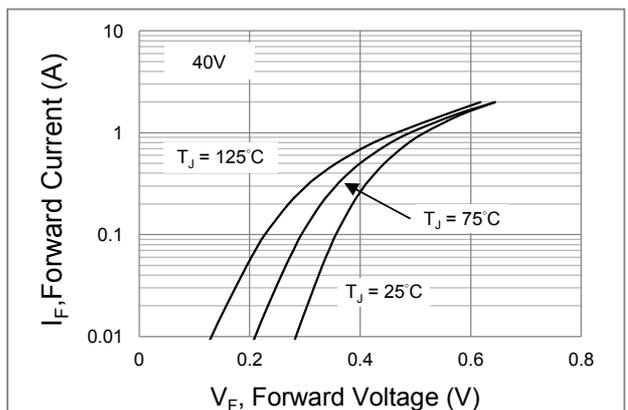


Fig.4 Typical Forward Characteristics

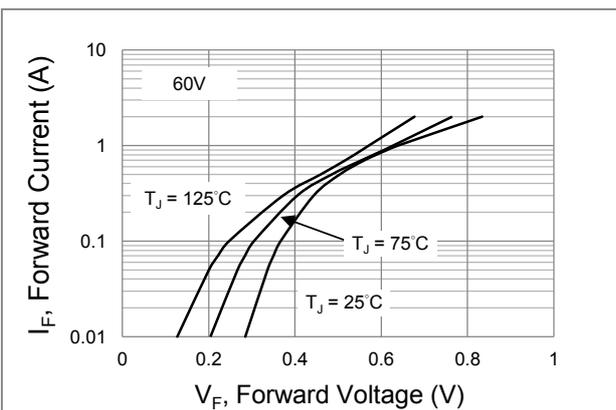


Fig.5 Typical Forward Characteristics

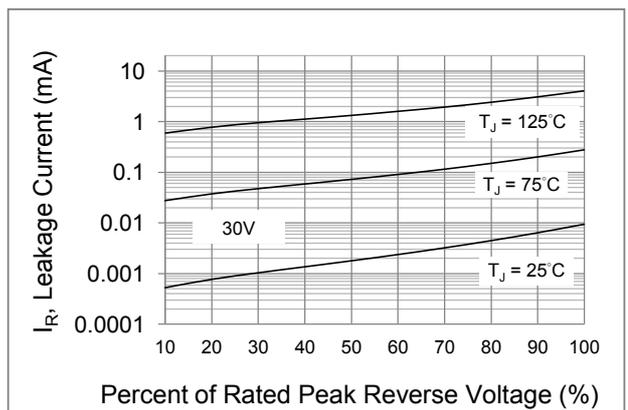


Fig.6 Typical Reverse Characteristics

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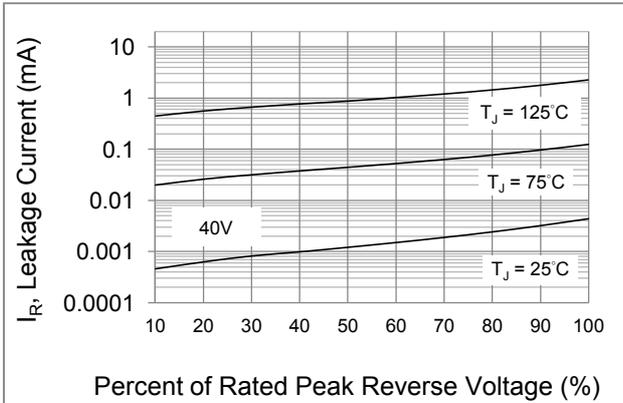


Fig.7 Typical Reverse Characteristics

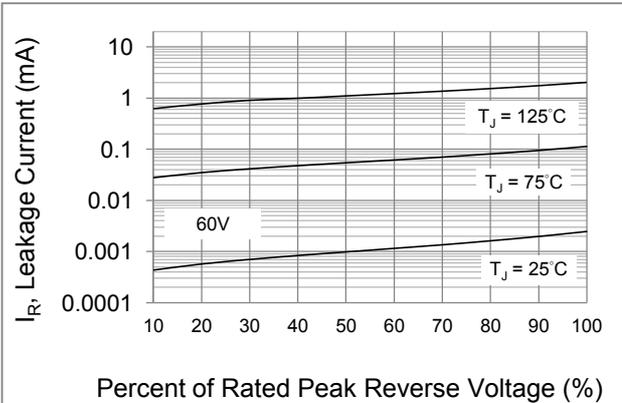


Fig.8 Typical Reverse Characteristics

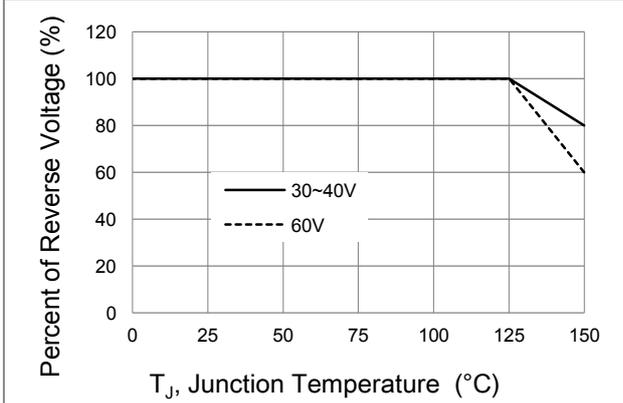
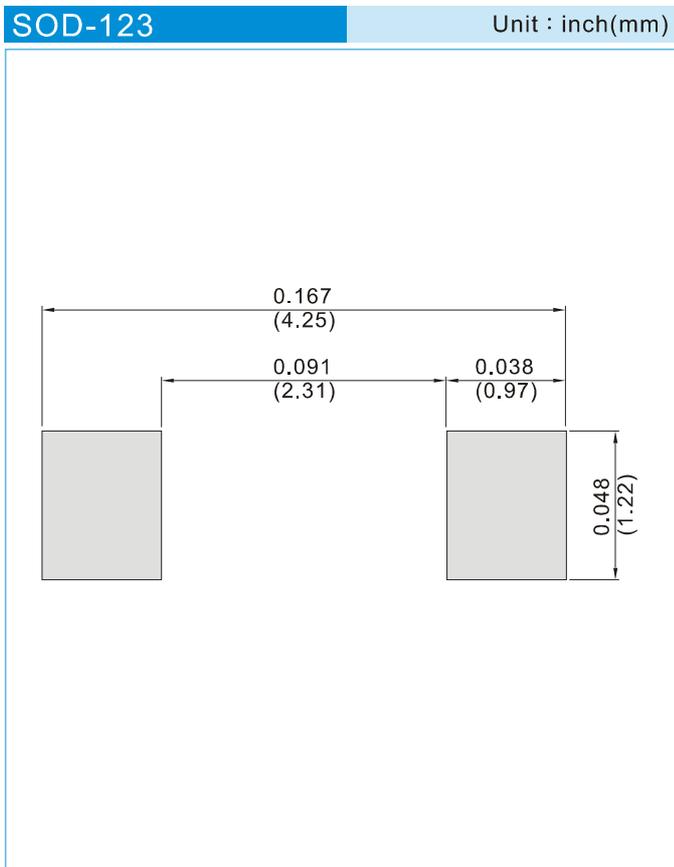


Fig.9 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 10K per 13" plastic Reel
T/R - 3K per 7" plastic Reel

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