



SS0520FL~SS0540FL

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 20 to 40 Volts **CURRENT** 0.50 Amperes

SOD-123FL/DO-219AB

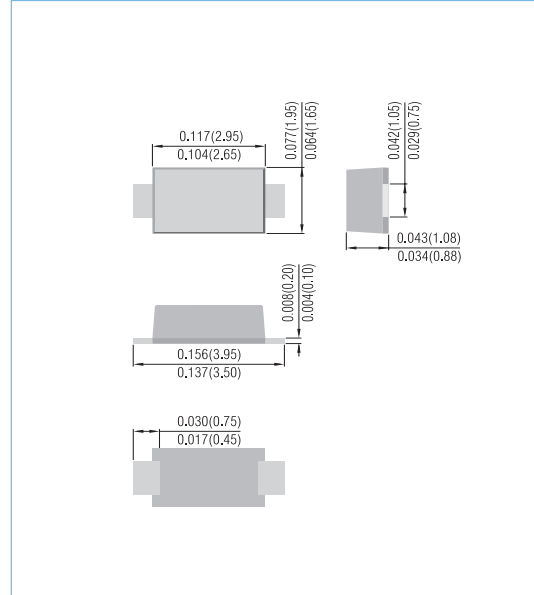
Unit: inch (mm)

FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

- Case: JEDEC DO-219AB, Molded plastic over passivated junction.
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Approx. Weight: 0.0168 gram
- Standard Packaging : 8mm tape (EIA-481)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

For capacitive load, derate current by 20%.

Parameter	Symbol	SS0520FL	SS0530FL	SS0540FL	Units
Marking Code		B02	B03	B04	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{dc}	20	30	40	V
Maximum Average Forward Current at $T_A=75^\circ\text{C}$	$I_{F(AV)}$	0.5			A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	20			A
Maximum Instantaneous Forward Voltage	V_F	0.3 @ 0.1A 0.385 @ 0.5A	0.375 @ 0.1A 0.430 @ 0.5A	0.51 @ 0.5A 0.62 @ 1.0A	V
Maximum Reverse Current	I_R	75 @ $V_r=10V$	20 @ $V_r=15V$	10 @ $V_r=20V$	μA
Maximum Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$	150 206			$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 TO +125			$^\circ\text{C}$



SS0520FL~SS0540FL

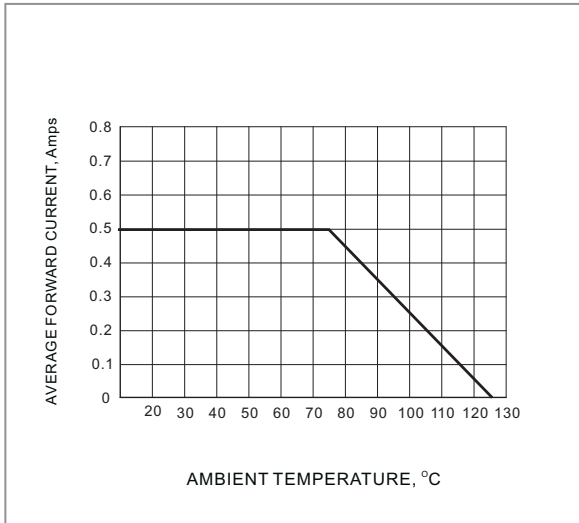


Fig. 1 FORWARD CURRENT DERATING

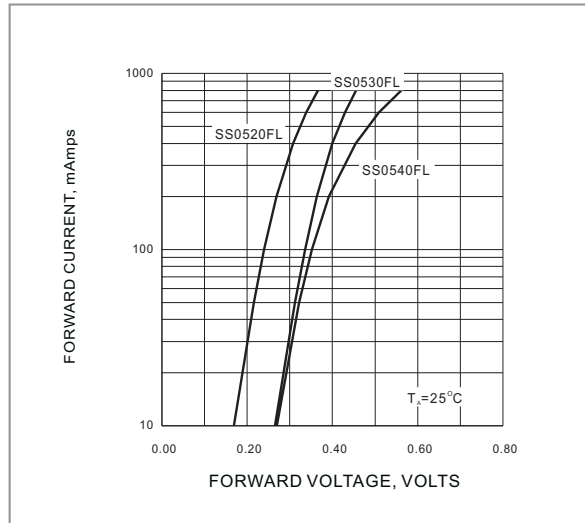


Fig. 2 TYPICAL FORWARD VOLTAGE

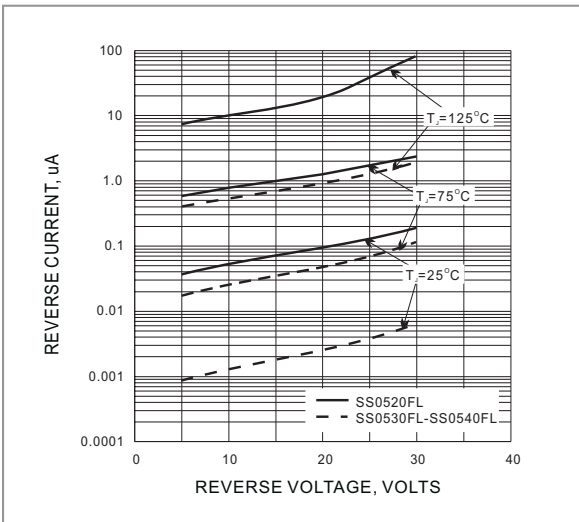


Fig. 3 TYPICAL REVERSE CURRENT

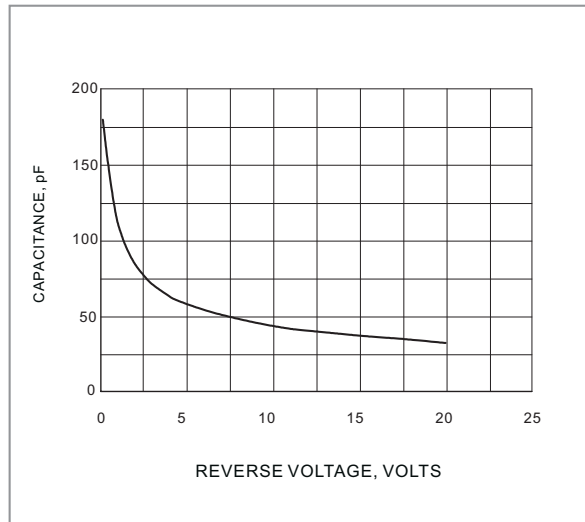
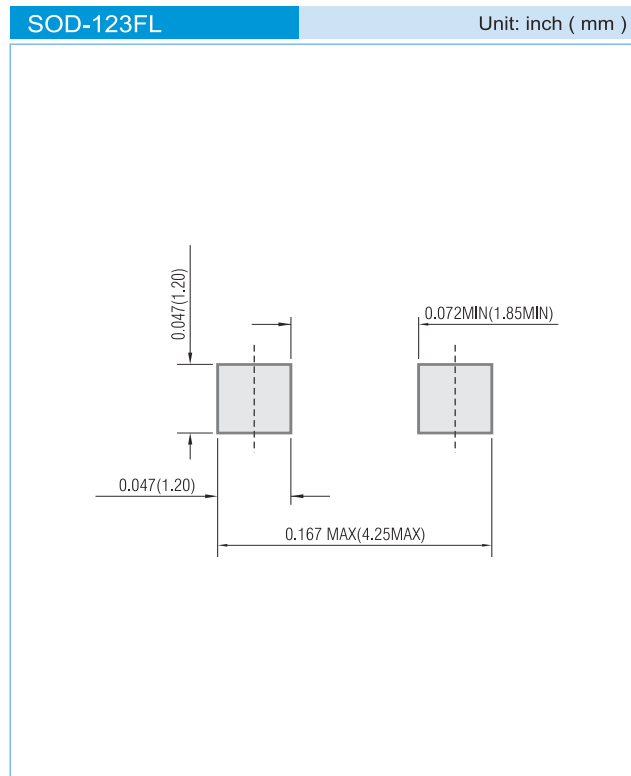


Fig. 4 TYPICAL JUNCTION CAPACITANCE



SS0520FL~SS0540FL

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

Copyright PanJit International, Inc 2005

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.