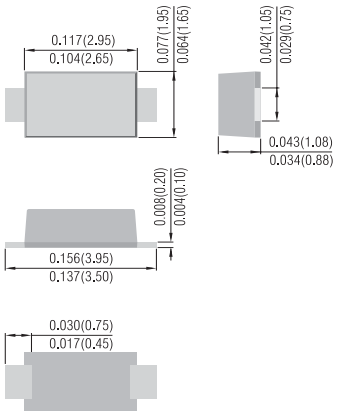
PANJIT SEMI CONDUCTOR

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
- Standrad 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°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@Vr=10V	20@Vr=15V	10@Vr=20V	uA
Maximum Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$	150 206			°C / W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 TO +125			°C

SS0520FL~SS0540FL

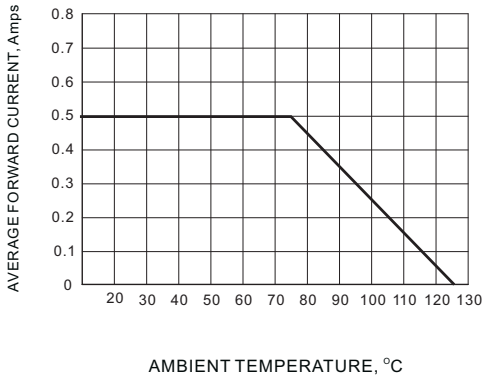


Fig.1 FORWARD CURRENT DERATING

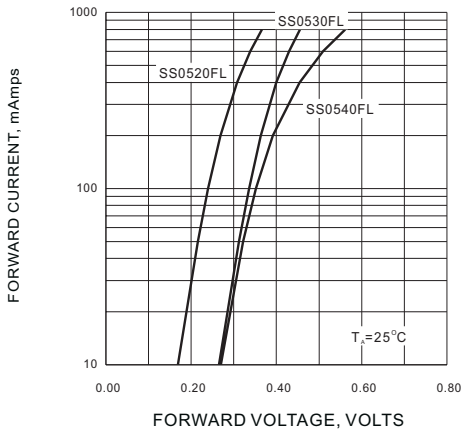


Fig.2 TYPICAL FORWARD VOLTAGE

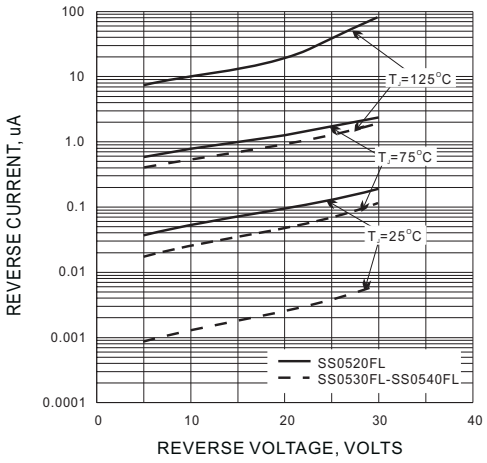


Fig.3 TYPICAL REVERSE CURRENT

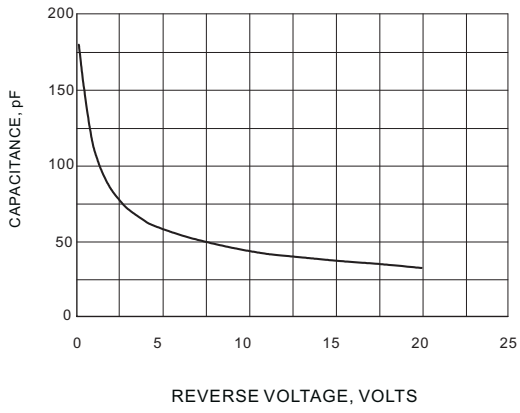
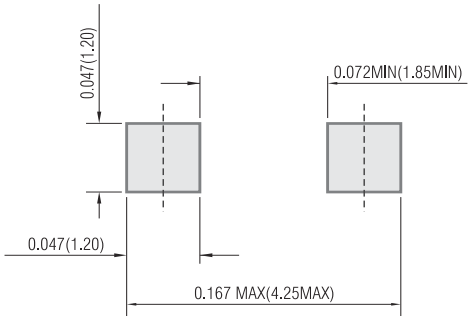


Fig.4 TYPICAL JUNCTION CAPACITANC

SS0520FL~SS0540FL

MOUNTING PAD LAYOUT

SOD-123FL Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 10K per 13" plastic Reel

  T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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