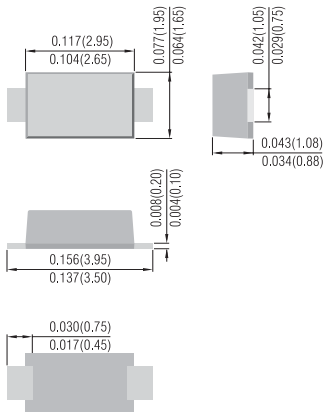
PANJIT SEMI CONDUCTOR

SS1020FL~SS10100FL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 100 Volts **CURRENT** 1.0 Amperes

SOD-123FL/DO-219AB Unit: inch (mm)



FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- 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
- Approx. Weight: 0.0168 gram, Standard Packaging : 8mm tape(EIA-481)
- Marking codes : SS1020FL : G2
  SS1030FL : G3
  SS1040FL : G4
  SS1060FL : G6
  SS10100FL : G10

ABSOLUTE RATINGS

PARAMETER	SYMBOL	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	UNITS
Reverse Voltage	V_R	20	30	40	60	100	V
Peak Reverse Voltage	V_{RRM}	20	30	40	60	100	V
Average Rectified current at T_L=75°C	$I_{F(AV)}$	1.0					A
Non-repetitive Peak Forward Surge Current at t=8.3ms	I_{FSM}	40					A
Junction Temperature	T_J	125					°C
Storage Temperature	T_{STG}	-50 to +150					°C

ELECTRICAL AND THERMAL CHARACTERISTICS

PARAMETER	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	UNITS
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	180					°C/W
Minimum Reverse Breakdown Voltage at I_R = 500μA	V_R	20	30	40	60	100	V
Maximuml Forward Voltage at I_F=1.0A at I_F=3.0A	V_F	0.45 0.75	0.55 -	0.55 -	0.70 -	0.85 -	V
Reverse Leakage Current at V_{RRM}	I_R	500					μA
Typical Junction Capacitance Rating	C_J	60	60	60	50	40	pF

Note.1 Mounted with minimum recommended pad size, PC Board FR4.
2.T_J=25°C unless otherwise specified.
3.Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

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Rating and Characteristic Curves

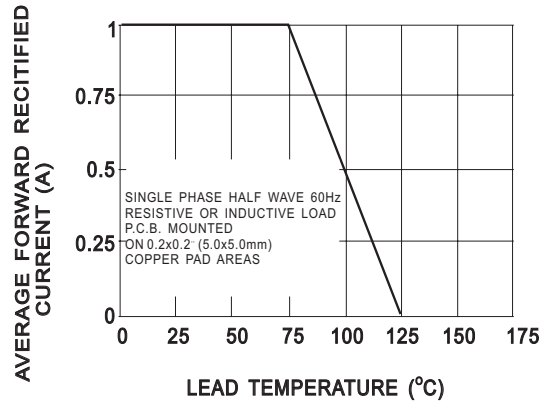

FIG. 1-FORWARD CURRENT DERATING CURVE

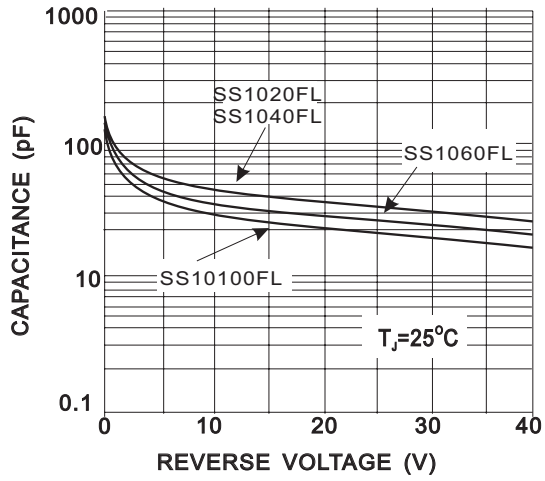

FIG. 2-TYPICAL JUNCTION RATINGS

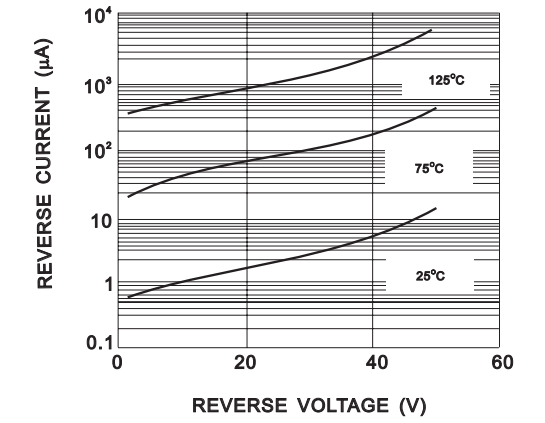

FIG. 3-TYPICAL REVERSE CHARACTERISTIC

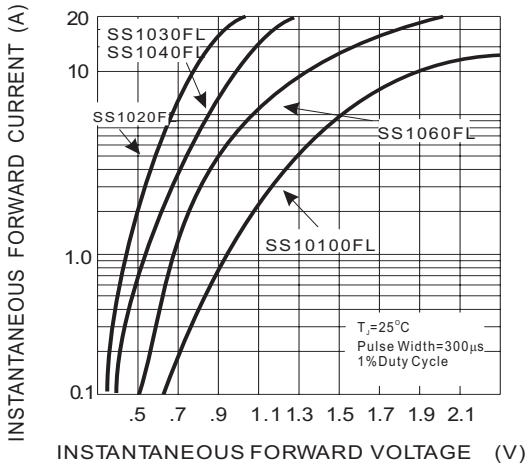

FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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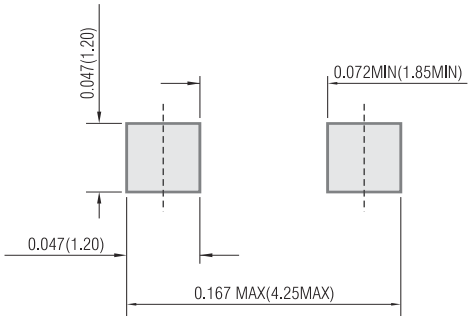
MOUNTING PAD LAYOUT

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