

SS1020FL~SS10100FL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

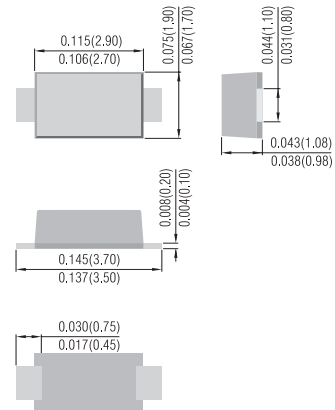
SOD-123FL Unit: inch (mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOD-123FL, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 17.25mg
- Polarity : Color band denotes cathode end



ABSOLUTE RATINGS

PARAMETER	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	UNITS
Marking Code	-	G2	G3	G4	G6	G10	-
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 $T_A=75^\circ\text{C}$	$I_{F(AV)}$	1.0					A
Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	I_{FSM}	40					A

ELECTRICAL AND THERMAL CHARACTERISTICS

PARAMETER	Symbol	SS1020FL	SS1030FL	SS1040FL	SS1060FL	SS10100FL	UNITS
Junction Temperature	T_J	125					$^\circ\text{C}$
Storage Temperature	T_{STG}	-50 to +125					$^\circ\text{C}$
Minimum Reverse Breakdown Voltage at $I_R=500\mu\text{A}$	V_R	20	30	40	60	100	V
Maximum Forward Voltage at $I_F=1.0\text{A}$	V_F	0.55	0.55	0.55	0.70	0.85	V
Reverse Leakage Current at V_{RRM}	I_R	500					μA
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	88					$^\circ\text{C/W}$
Typical Junction Capacitance Rating at $V_R=0\text{V}$	C_J	60	60	60	50	40	pF

Note.1 Mounted with minimum recommended pad size, PC Board FR4.

2. $T_A=25^\circ\text{C}$ unless otherwise specified.

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Rating and Characteristic Curves

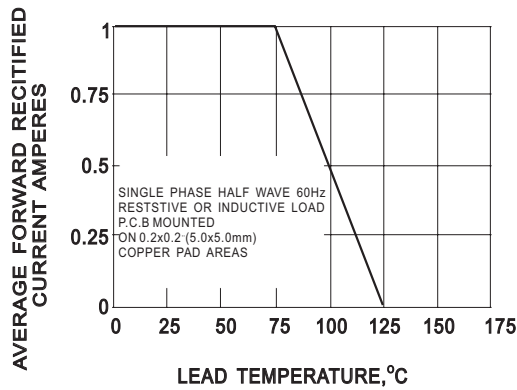


FIG. 1-FORWARD CURRENT DERATING CURVE

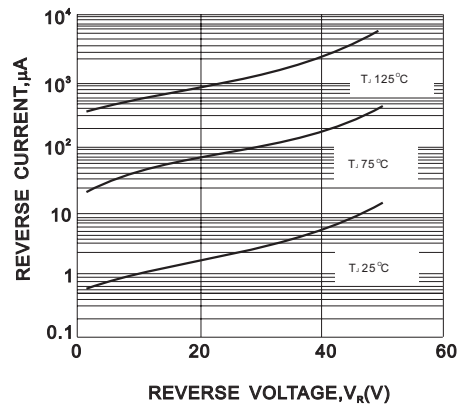


FIG. 2-TYPICAL REVERSE CHARACTERISTIC

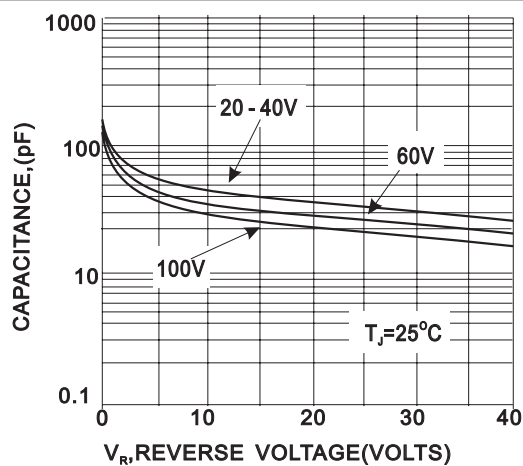


FIG. 3-TYPICAL JUNCTION CHARACTERISTIC

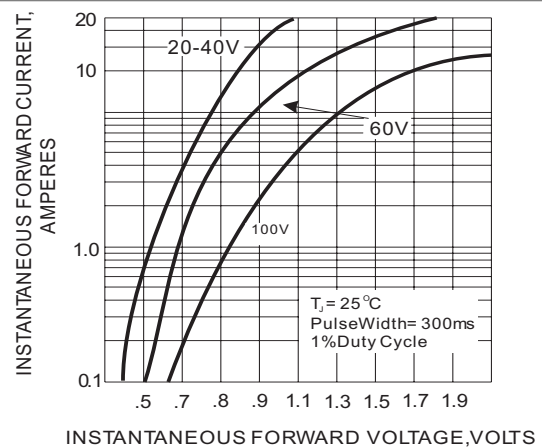


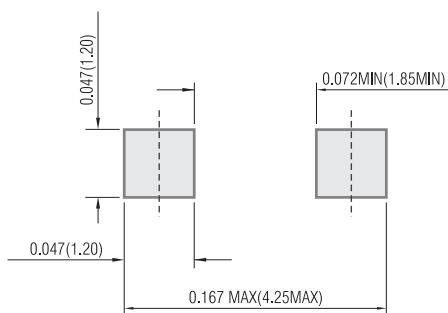
FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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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

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