

SS2020FL~SS20100FL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

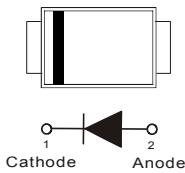
VOLTAGE 20 to 100 Volt **CURRENT** 2 Ampere

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Ultra thin profile package for space constrained utilization
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

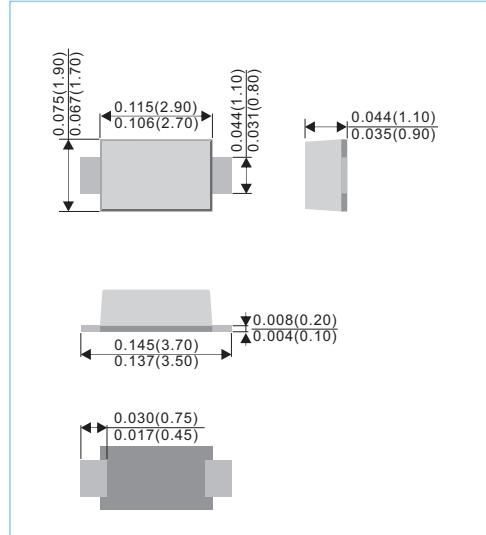
MECHANICAL DATA

- Case : SOD-123FL, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 ounces, 0.017 grams.
- Polarity : Color band denotes cathode end



SOD-123FL

Unit : inch(mm)



ABSOLUTE RATINGS

PARAMETER	SYMBOL	SS2020FL	SS2030FL	SS2040FL	SS2060FL	SS20100FL	UNITS
Marking Code		GM	GN	GP	GQ	GR	
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 $T_A=75^\circ C$	$I_{F(AV)}$			2			A
Non-repetitive Peak Forward Surge Current at $t=8.3ms$	I_{FSM}			50			A

ELECTRICAL AND THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	SS2020FL	SS2030FL	SS2040FL	SS2060FL	SS20100FL	UNITS
Minimum Reverse Breakdown Voltage at $I_R=500\mu A$	V_R	20	30	40	60	100	V
Maximum Forward Voltage at $I_F=2A$	V_F		0.5		0.7	0.85	V
Reverse Leakage Current at V_{RRM}	I_R		100		40		μA
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$			60			$^\circ C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}			-50 to +150			$^\circ C$

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

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

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Rating and Characteristic Curves

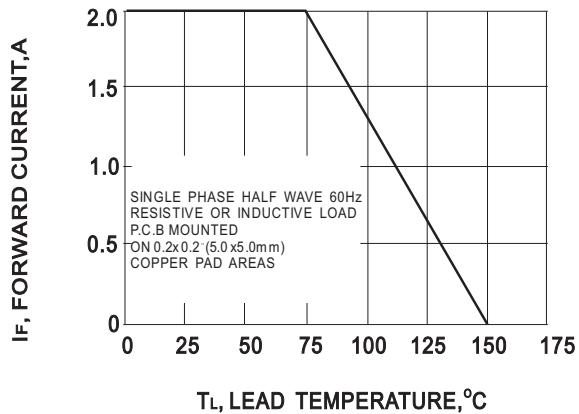


FIG. 1 FORWARD CURRENT DERATING CURVE

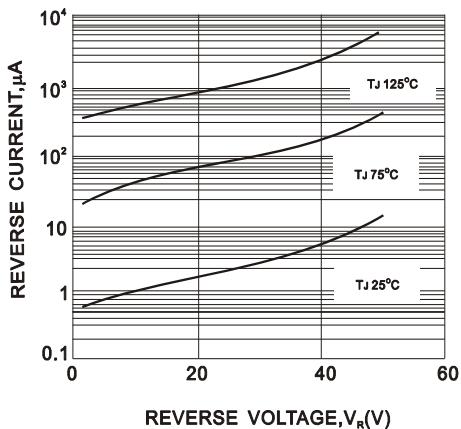


FIG. 2 TYPICAL REVERSE CHARACTERISTIC

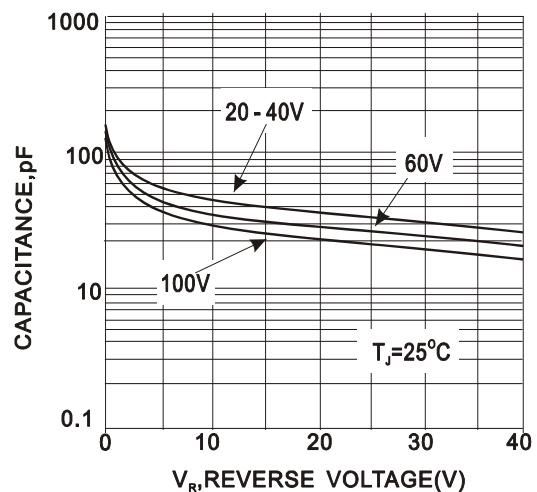


FIG. 3 TYPICAL JUNCTION CHATACTERISTIC

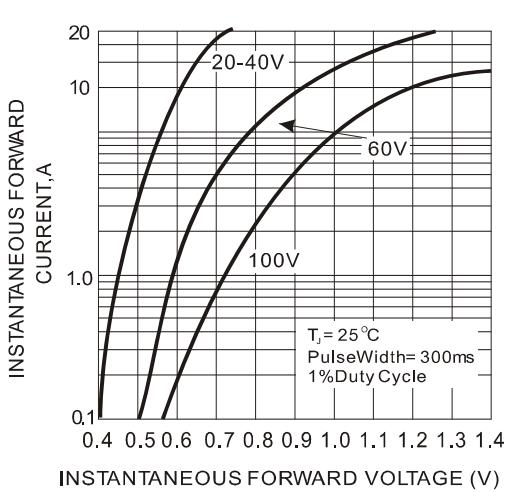


FIG. 4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

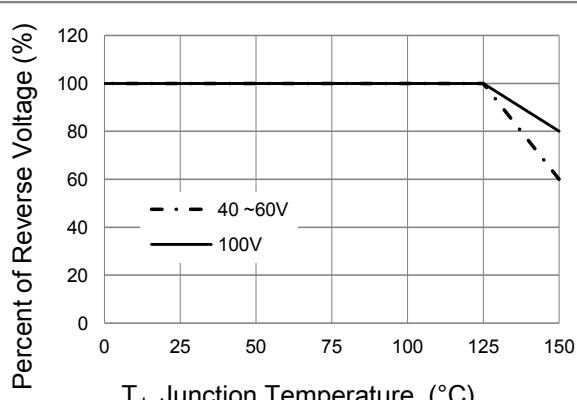
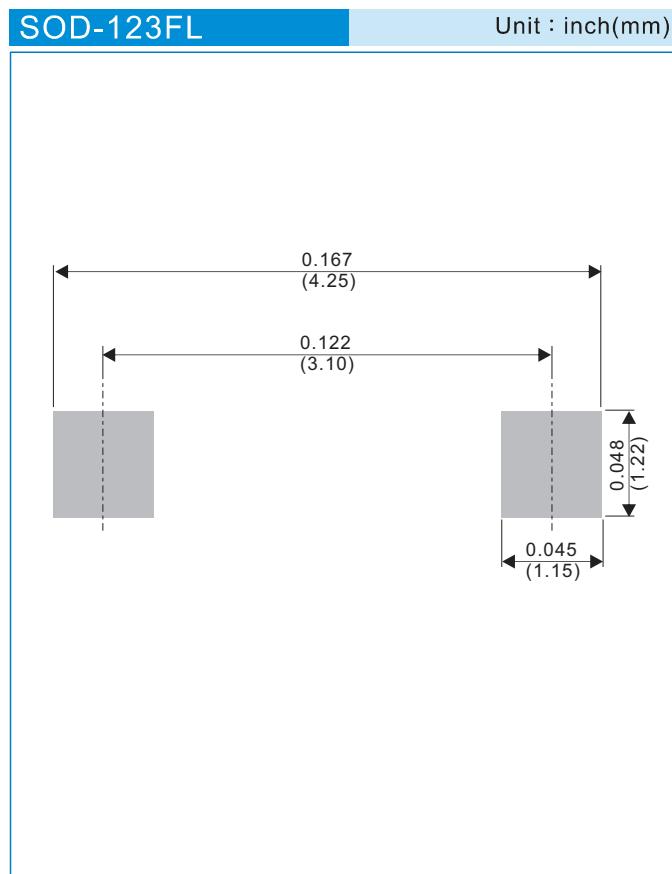


Fig.5 Operating Temperature Derating Curve

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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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