SS2020FL~SS20100FL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

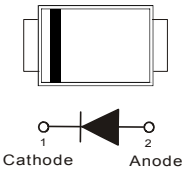
VOLTAGE 20 to 100 Volt **CURRENT** 2 Ampere

FEATURES

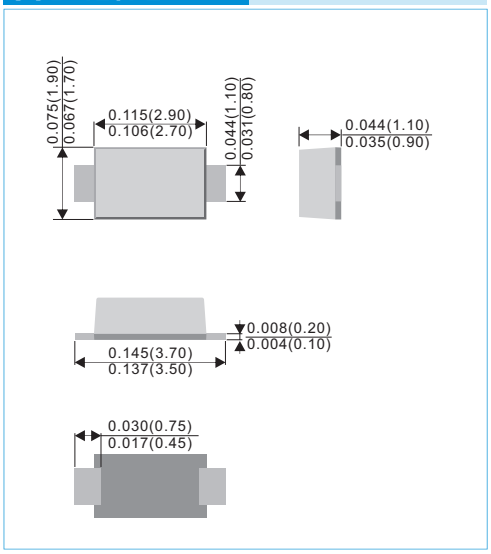
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Ultra thin profile package for space constrained utilization
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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 Reversr Voltage	V_{RRM}	20	30	40	60	100	V
Average Rectified Current at T_A=75°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=500μA	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					°C/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-50 to +150					°C

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

2.T_A=25°C unless otherwise specified.

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Rating and Characteristic Curves

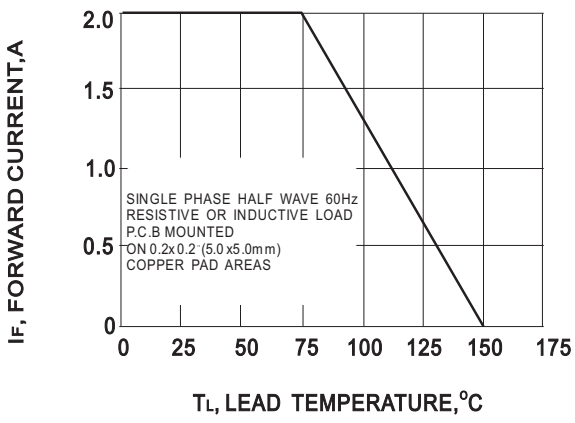


FIG. 1 FORWARD CURRENT DERATING CURVE

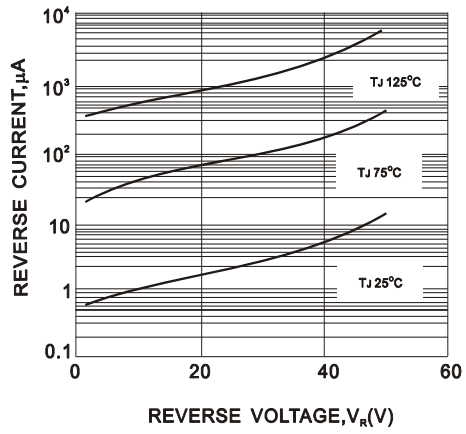


FIG. 2 TYPICAL REVERSE CHARACTERISTIC

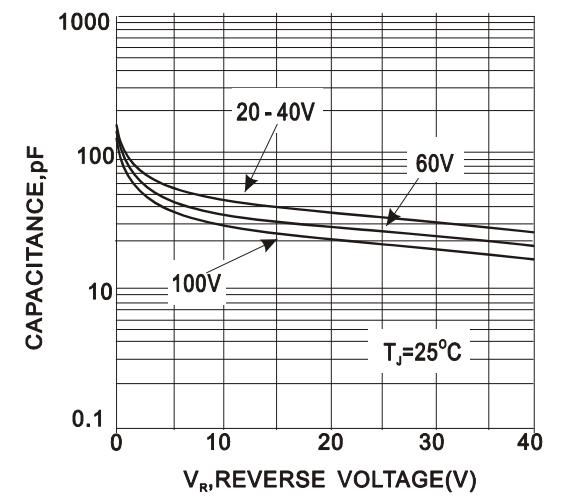


FIG. 3 TYPICAL JUNCTION CHATACTERISTIC

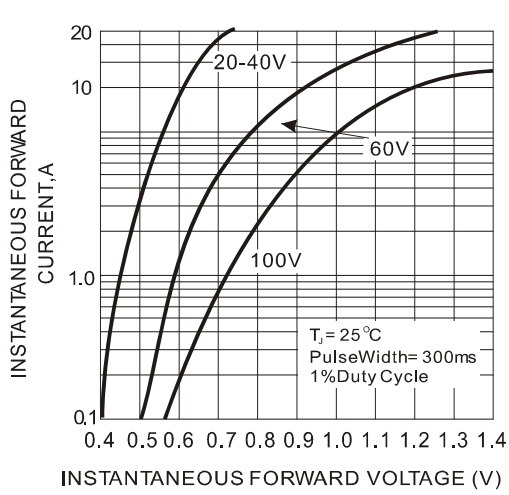


FIG. 4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

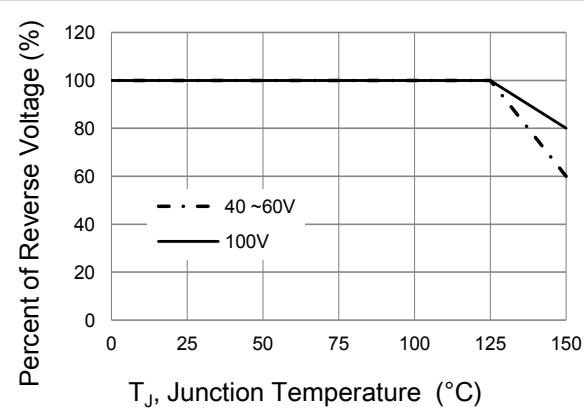


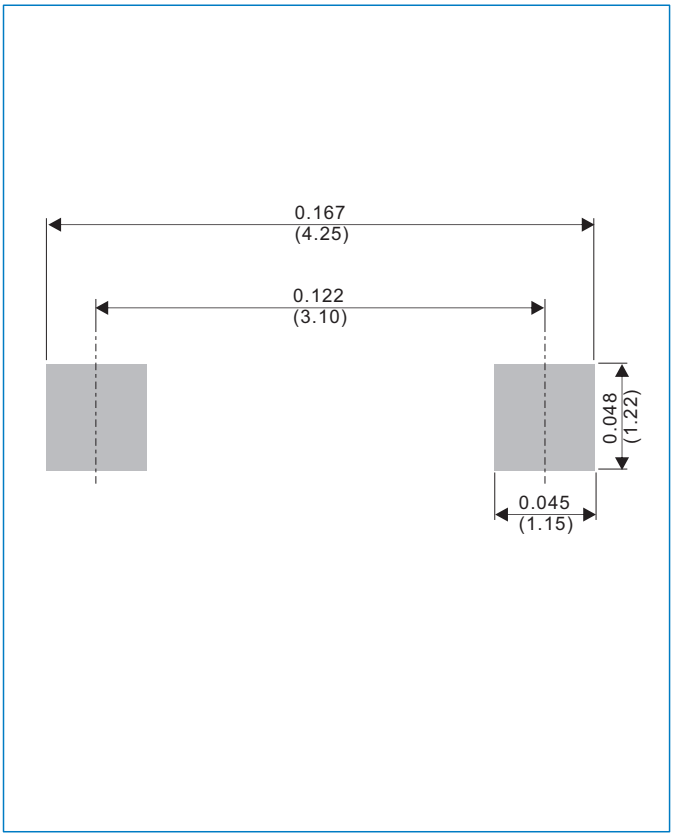
Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT

SOD-123FL Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 10K per 13" plastic Reel

  T/R - 3K per 7" plastic Reel

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