

# SS2020FL~SS20100FL

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

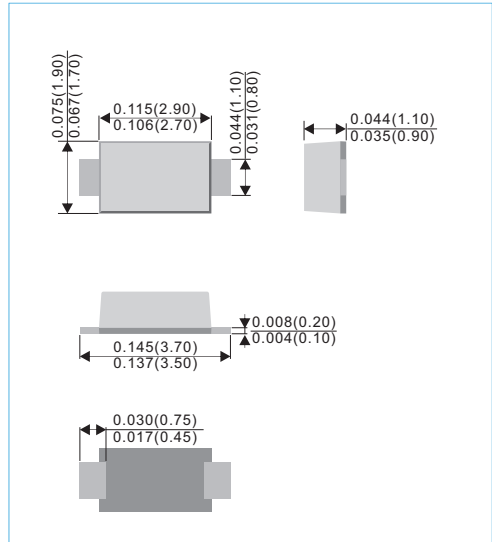
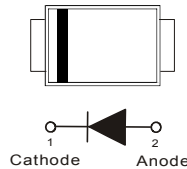
**SOD-123FL** Unit : inch(mm)

### 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



### 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 $T_A=75^\circ\text{C}$	$I_{F(AV)}$	2						A
Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	$I_{FSM}$	50						A

### ELECTRICAL AND THERMAL CHARACTERISTICS

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

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

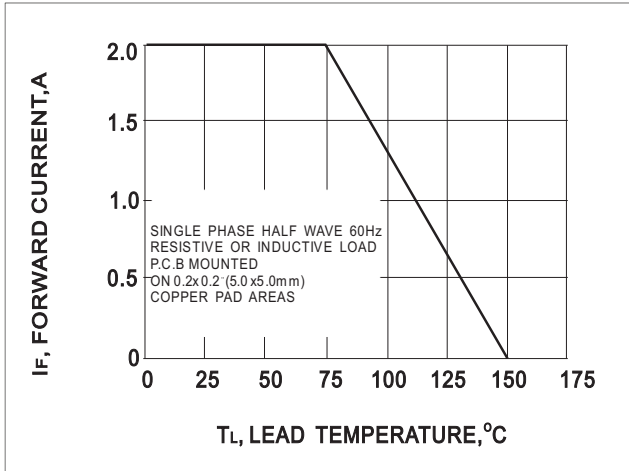


FIG. 1 FORWARD CURRENT DERATING CURVE

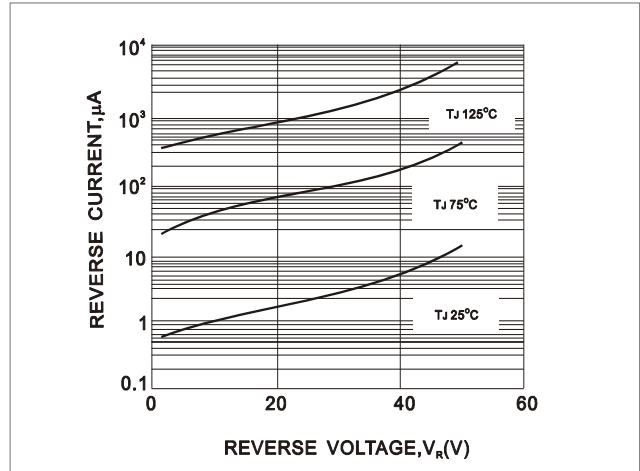


FIG. 2 TYPICAL REVERSE CHARACTERISTIC

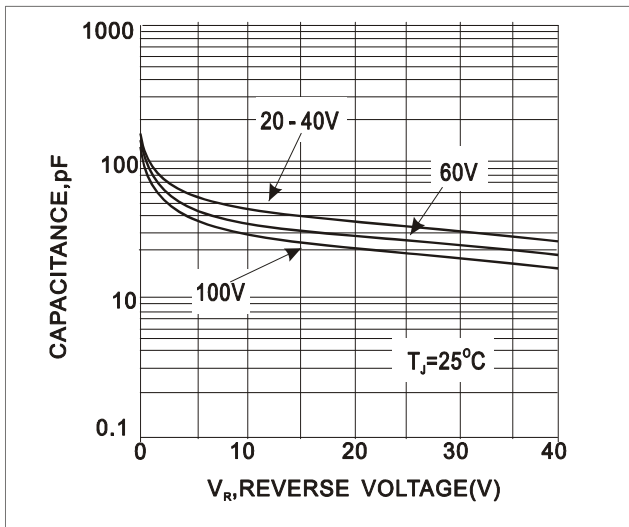


FIG. 3 TYPICAL JUNCTION CHARACTERISTIC

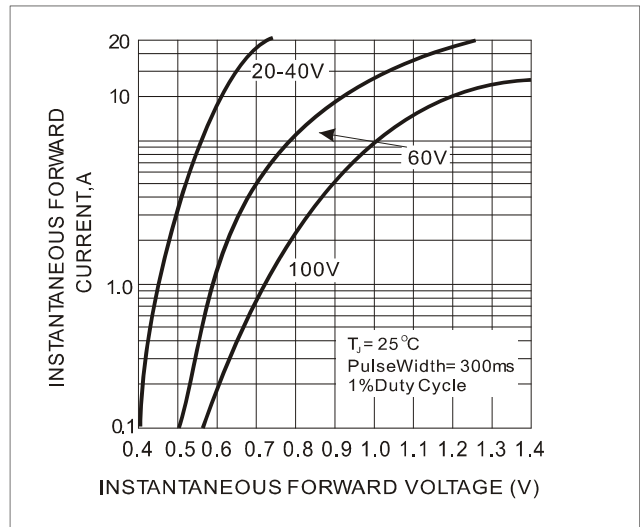


FIG. 4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

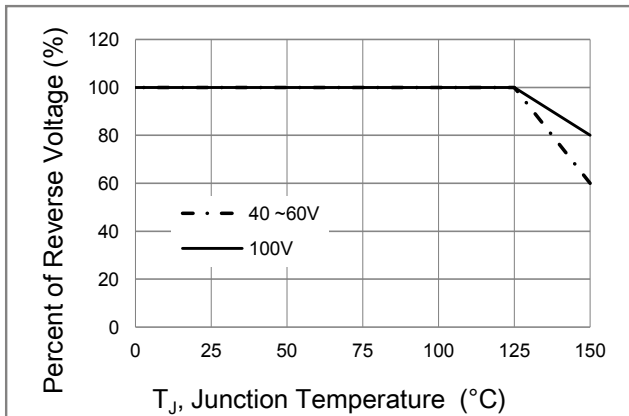
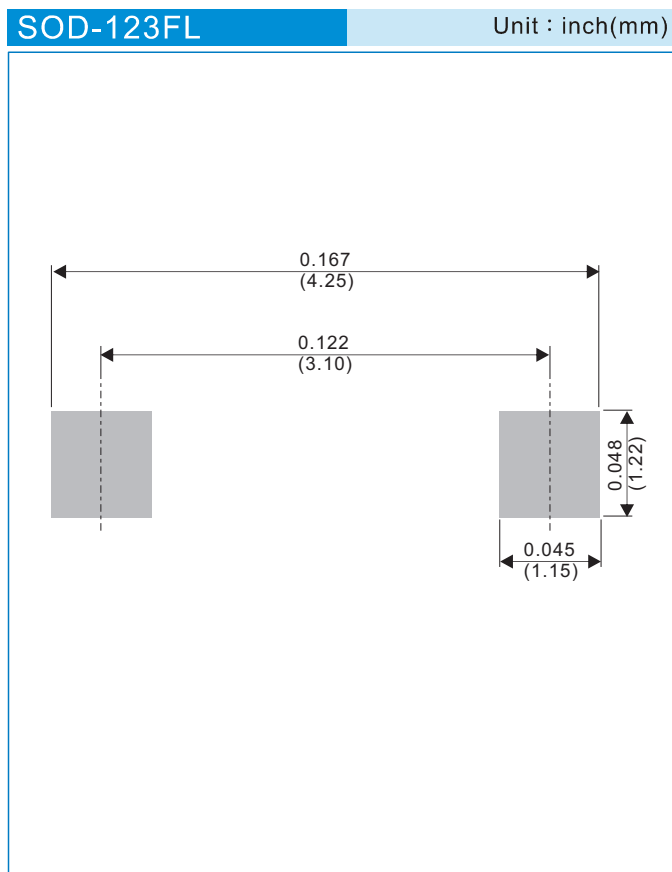


Fig.5 Operating Temperature Derating Curve

## SS2020FL~SS20100FL

### 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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