



# SS2020FL~SS20100FL

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 20 to 100 Volts **CURRENT** 2.0 Amperes

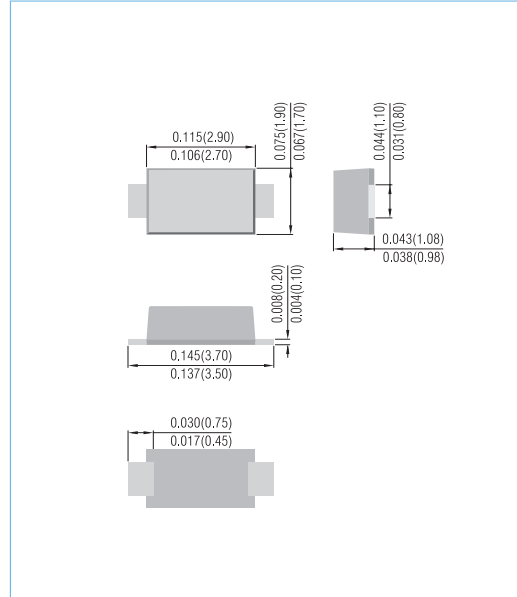
SOD-123FL Unit: inch ( mm )

### 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
- Approx. Weight: 0.0168 gram
- Polarity : Color band cathode



### 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 $T_A=75^\circ\text{C}$	$I_{F(AV)}$	2.0					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 $I_F=2.0\text{A}$	$V_F$	0.55			0.70	0.85	V
Reverse Leakage Current at $V_{RRM}$	$I_R$	500					$\mu\text{A}$
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 +125					$^\circ\text{C}$

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

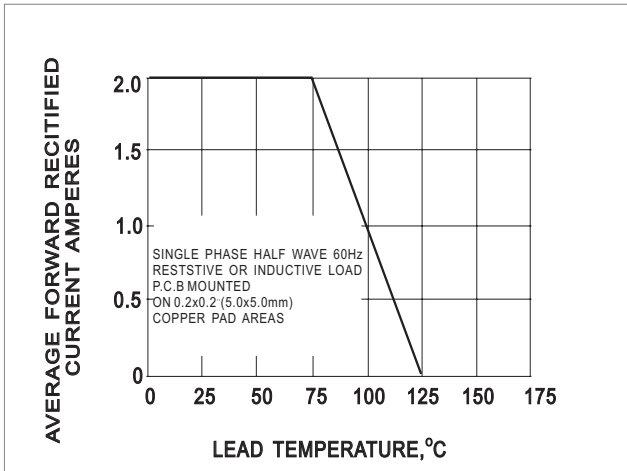


FIG. 1-FORWARD CURRENT DERATING CURVE

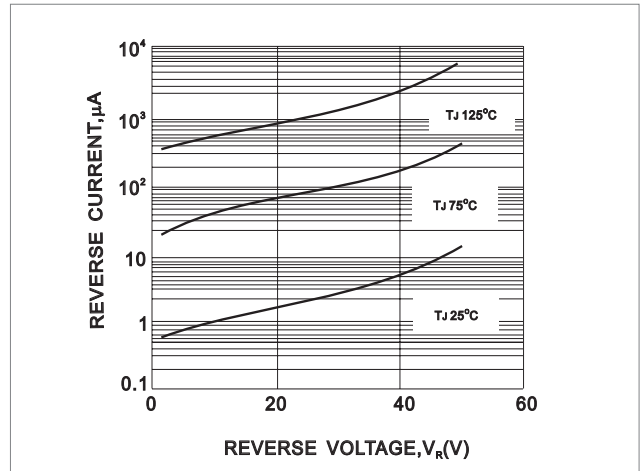


FIG. 2-TYPICAL REVERSE CHARACTERISTIC

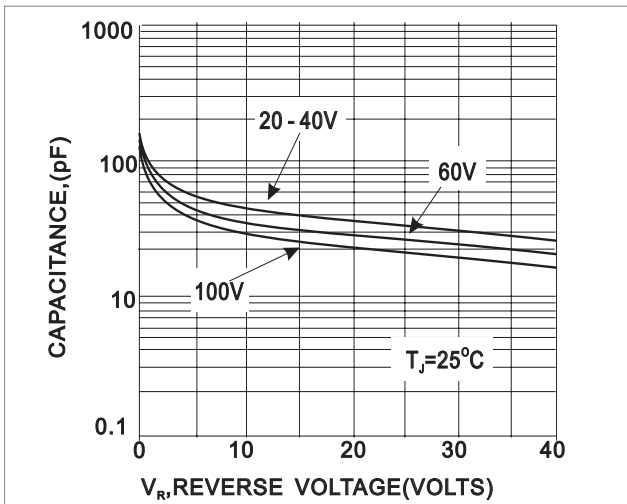


FIG. 3-TYPICAL JUNCTION CHARACTERISTIC

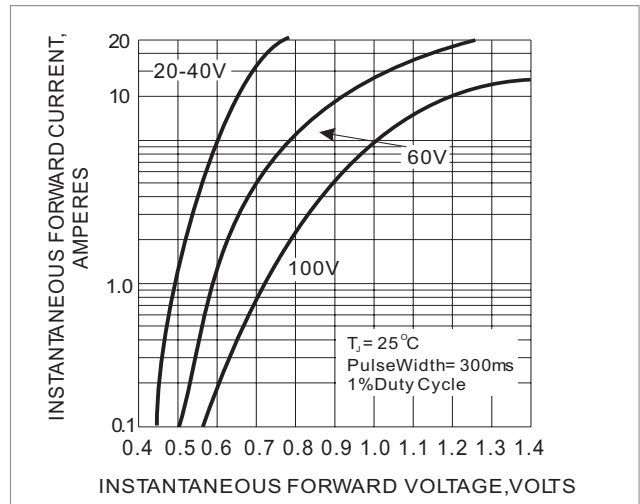


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

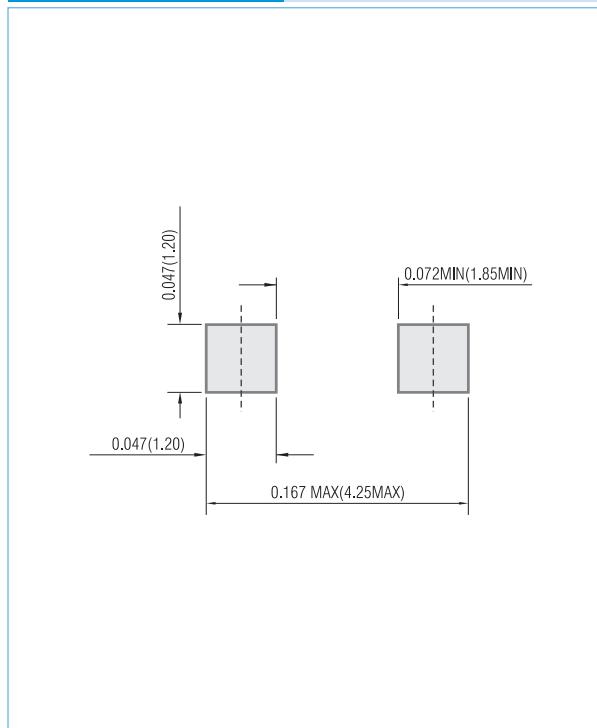


## SS2020FL~SS20100FL

### 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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