



# SS3040FL-F

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 40 Volts **CURRENT** 2.4 Amperes

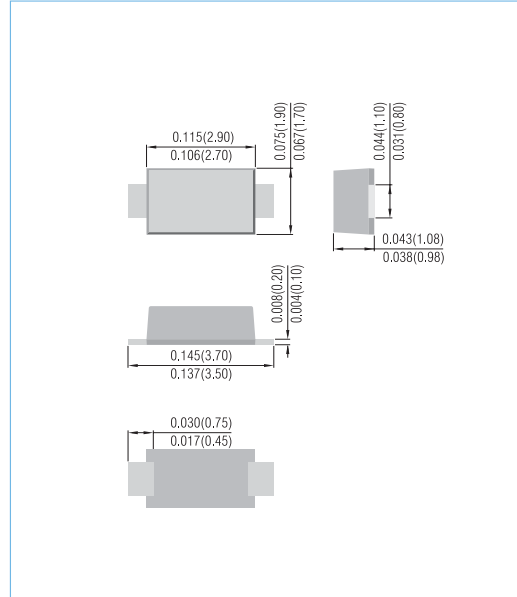
SOD-123FL Unit: inch ( mm )

### 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



### ABSOLUTE RATINGS

PARAMETER	SYMBOL	SS3040FL-F	UNITS
Reverse Voltage	$V_R$	40	V
Peak Reversr Voltage	$V_{RRM}$	40	V
Average Rectified Current at $T_A=75^\circ\text{C}$	$I_{F(AV)}$	2.4	A
Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	$I_{FSM}$	30	A

### ELECTRICAL AND THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	SS3040FL-F	UNITS
Minimum Reverse Breakdown Voltage at $I_R=500\mu\text{A}$	$V_R$	40	V
Maximum Forward Voltage at $I_F=3.0\text{A}$	$V_F$	0.55	V
Reverse Leakage Current at $V_{RRM}$	$I_R$	500	$\mu\text{A}$
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	150	$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-50 to +125	$^\circ\text{C}$

Note.1 Mounted with minimum recommended pas size, PC Board FR4.  
2.  $T_A=25^\circ\text{C}$  unless otherwise specified.



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## Rating and Characteristic Curves

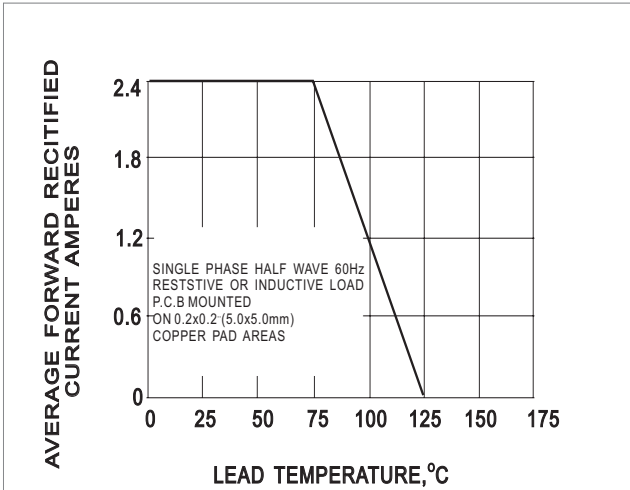


FIG. 1-FORWARD CURRENT DERATING CURVE

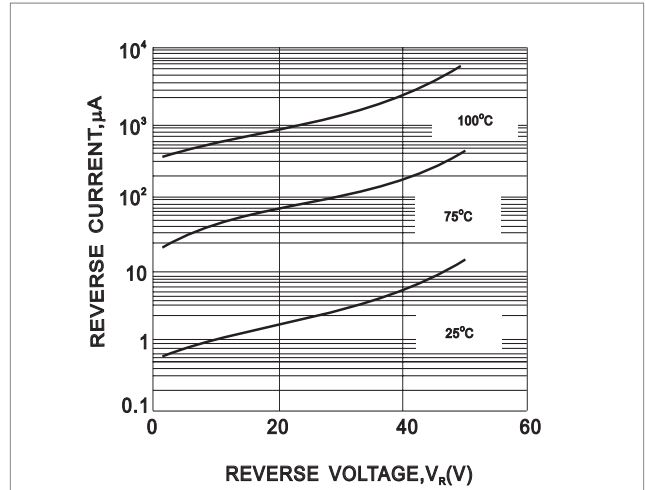


FIG. 2-TYPICAL REVERSE CHARACTERISTIC

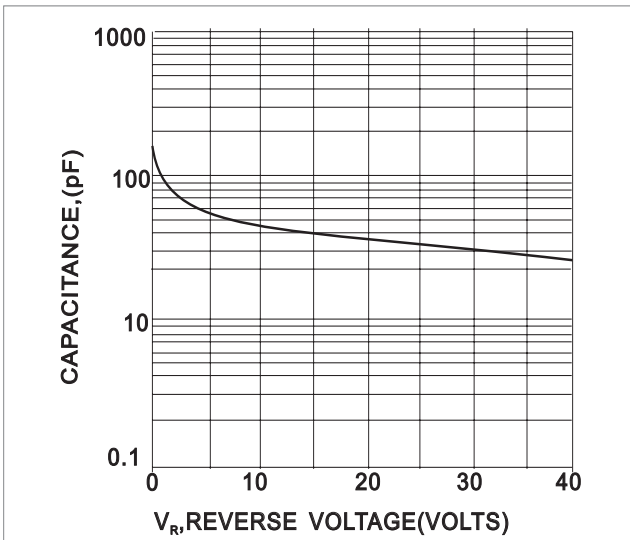


FIG. 3-TYPICAL JUNCTION CHARACTERISTIC

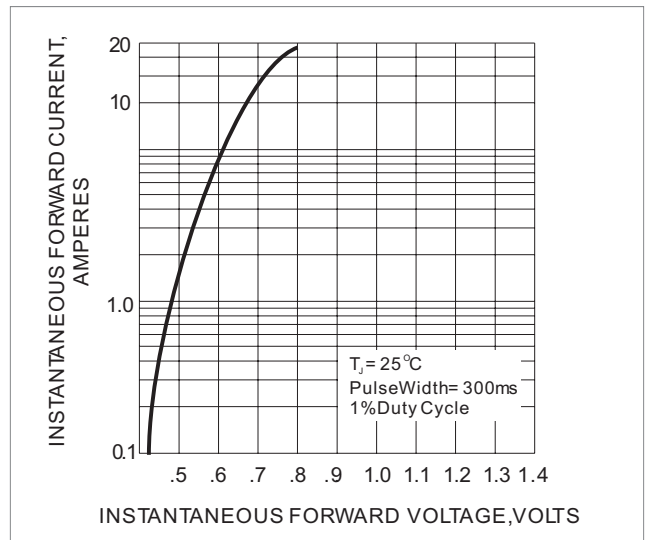
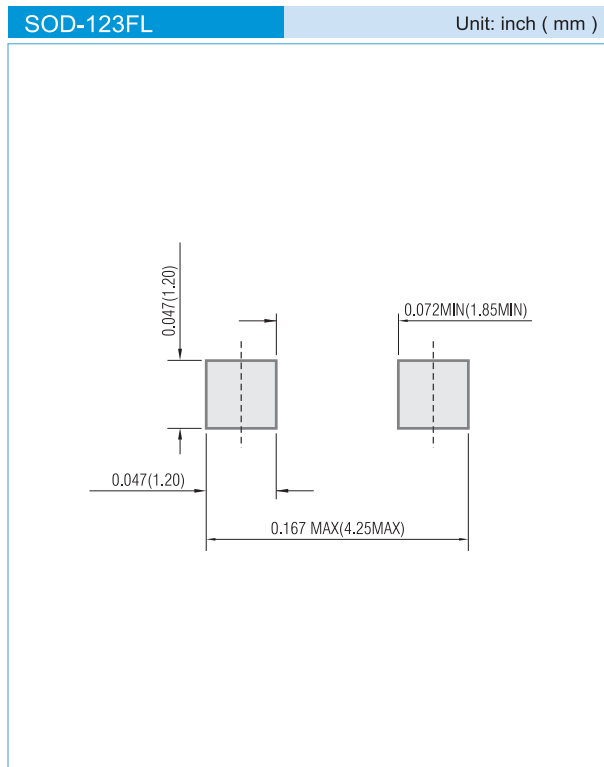


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information
  - T/R - 10K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel

## LEGAL STATEMENT

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