

SS2040LL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

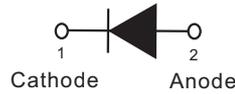
VOLTAGE 40 Volt **CURRENT** 2 Ampere

FEATURES

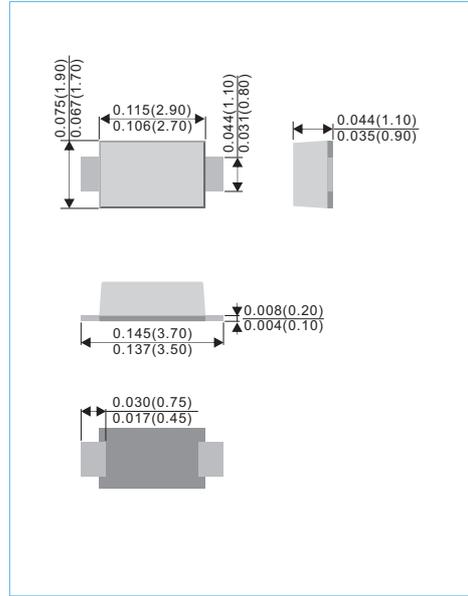
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Low forward voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-123FL, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0173 grams
- Polarity: Color band denotes cathode end
- Marking: R4



SOD-123FL Unit : inch(mm)



ABSOLUTE RATINGS($T_A=25^\circ\text{C}$ unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V_R	40	V
Peak Reversr Voltage	V_{RRM}	40	V
Average Rectified Current	$I_{F(AV)}$	2	A
Non-repetitive Peak Forward Surge Current at $t=8.3\text{ms}$	I_{FSM}	50	A

ELECTRICAL AND THERMAL CHARACTERISTICS($T_A=25^\circ\text{C}$ unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNITS
Minimum Reverse Breakdown Voltage at $I_R=500\mu\text{A}$	V_R	40	V
Maximum Forward Voltage at $I_F=2.0\text{A}$	V_F	0.45	V
Reverse Leakage Current at V_{RRM}	I_R	500	μA
Typical Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	250	$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-50 to +125	$^\circ\text{C}$

Note.1 Mounted on PCB with minimum pad layout.

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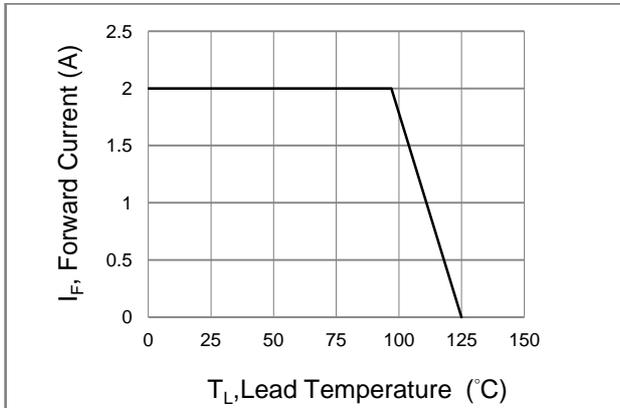


Fig.1 Forward Current Derating Curve

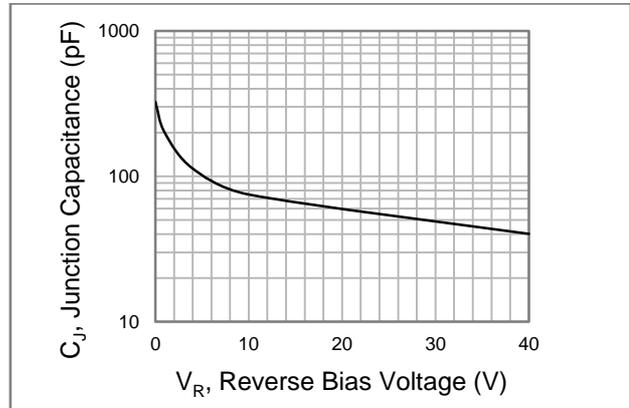


Fig.2 Typical Junction Capacitance

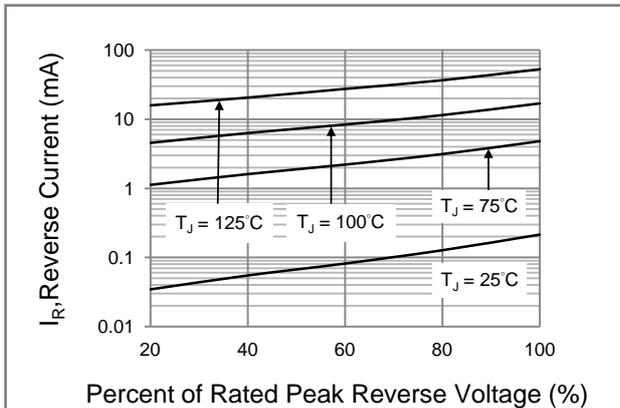


Fig.3 Typical Reverse Characteristics

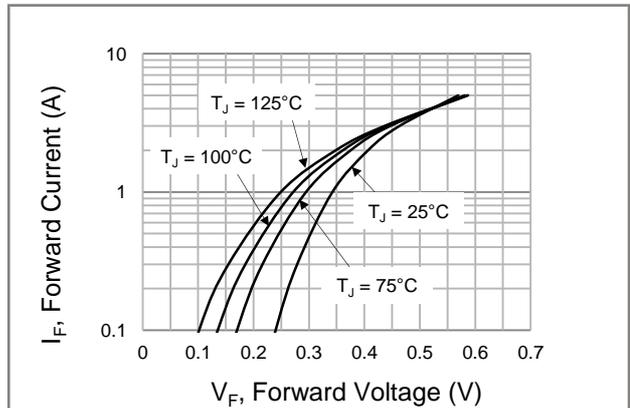


Fig.4 Typical Forward Characteristics

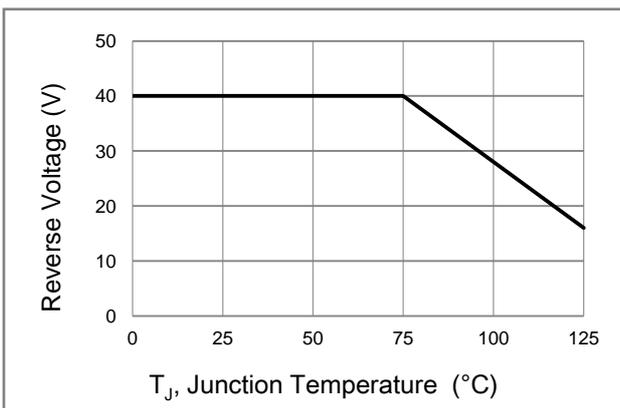
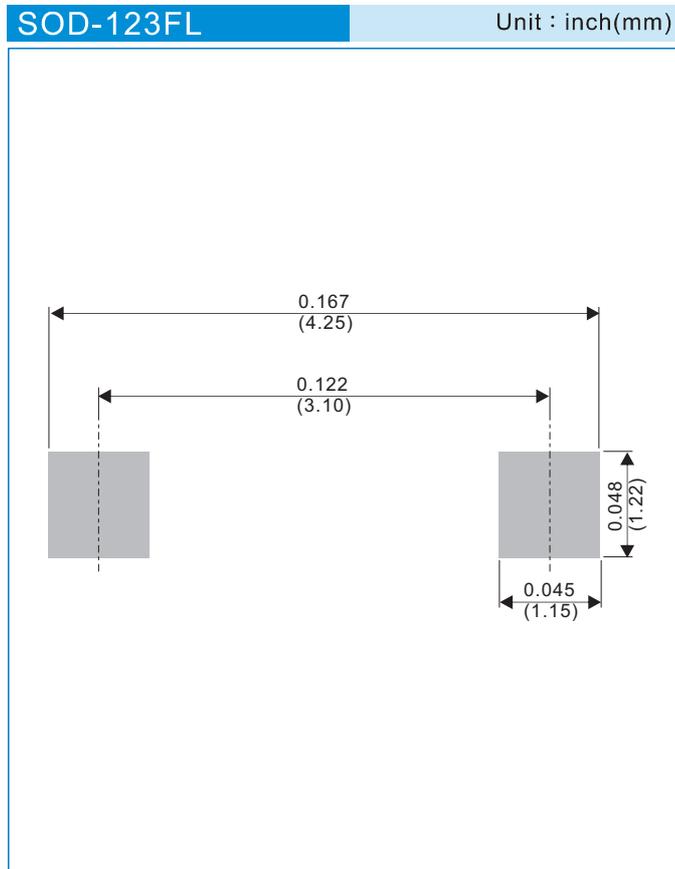


Fig.5 Operating Temperature Derating Curve

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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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