



SS1090VFL

LOW VF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 90 Volt **CURRENT** 1 Ampere

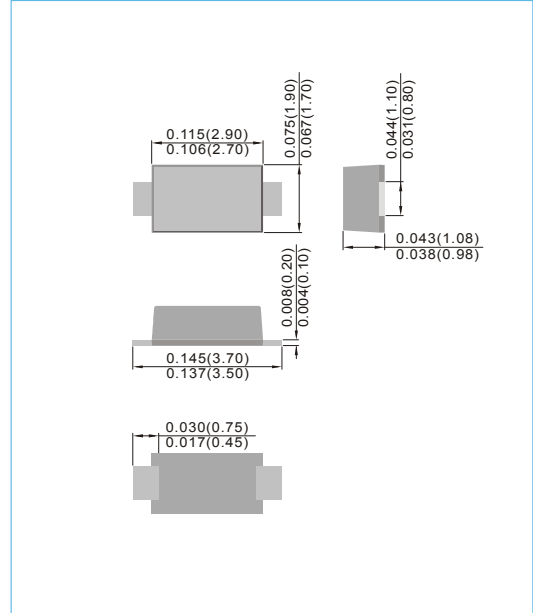
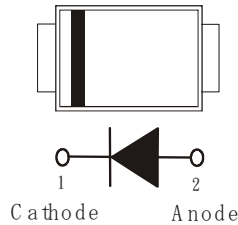
SOD-123FL Unit : inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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: RD



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V _R	90	V
Peak Reverse Voltage	V _{RRM}	90	V
Average Rectified Current	I _O	1	A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50	A
Typical Thermal Resistance, Junction to Ambient (Note 1)	R _{θJA}	180	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V _(BR)	I _R =1mA	90	-	-	V
Reverse Current	I _R	V _R =90V	-	-	100	μA
Forward Voltage	V _F	I _F =1.0A	-	0.68	0.73	V
Typical Junction Capacitance	C _J	V _R =0V, f=1.0MHz	-	203	-	pF

NOTES:

1. Mounted on 48cm² FR-4 PCB



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RATING AND CHARACTERISTIC CURVES

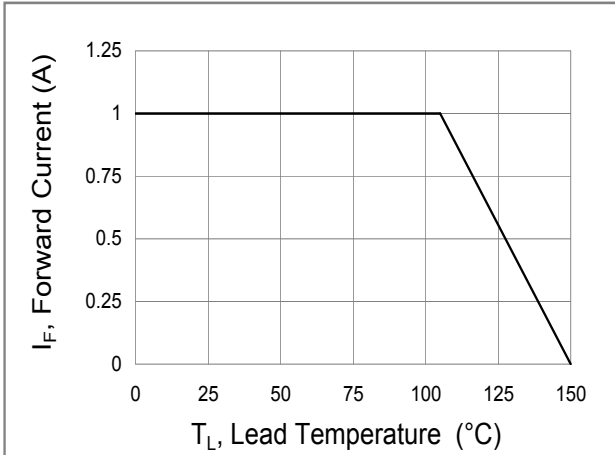


Fig.1 Forward Current Derating Curve

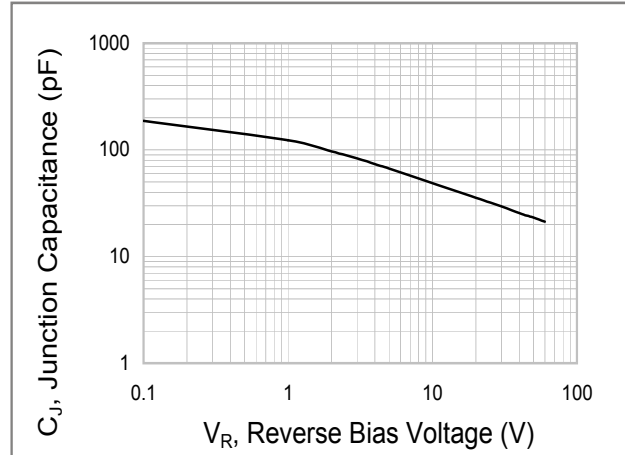


Fig.2 Typical Junction Capacitance

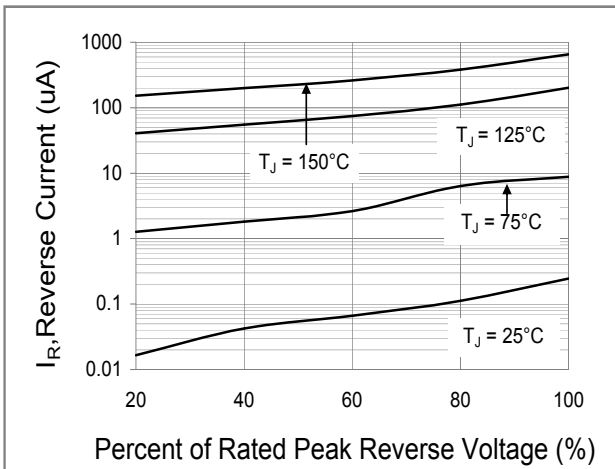


Fig.3 Typical Reverse Characteristics

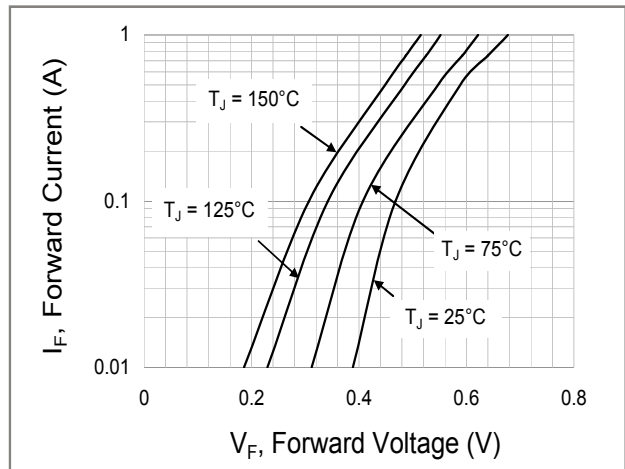
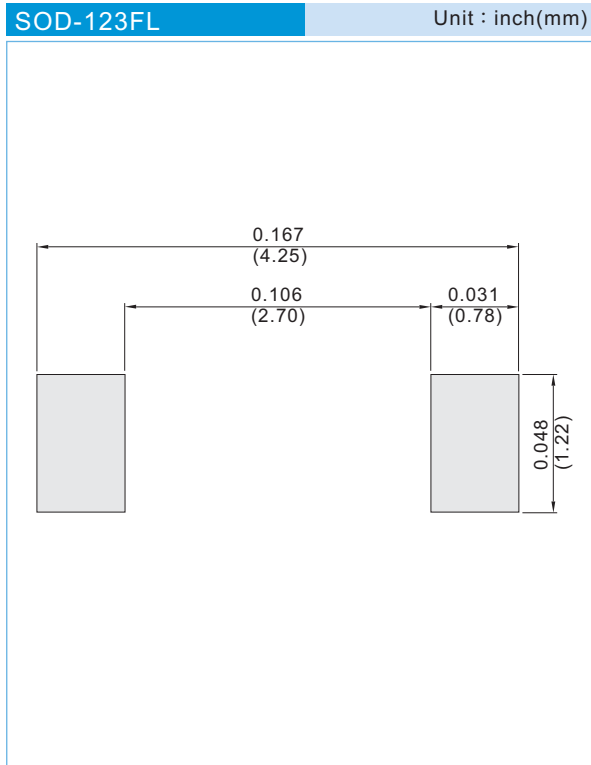


Fig.4 Typical Forward Characteristics



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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