



SS2060LHE

SURFACE MOUNT LOW VF SCHOTTKY BARRIER RECTIFIER

VOLTAGE 60 Volt **CURRENT** 2 Ampere

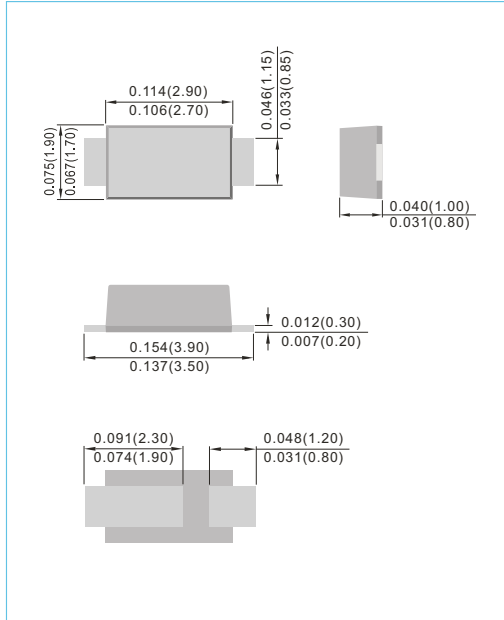
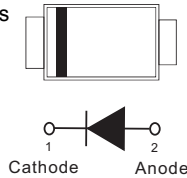
SOD-123HE Unit : inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC.
- High conductor
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-123HE, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.00015 ounces, 0.00424 grams
- Polarity: Color band denotes cathode end
- Marking: EX



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

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V_R	60	V
Peak Reverse Voltage	V_{RRM}	60	V
Average Rectified Current at Temp=75°C	I_O	2	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) Junction to Case (Note 1)	$R_{\theta JA}$ $R_{\theta JC}$	200 15	°C/W
Operating Junction Temperature and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C

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

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=1mA$	60	--	--	V
Reverse Current	I_R	$V_R=60V$	--	--	100	μA
Forward Voltage	V_F	$I_F=1.0A$ $I_F=2.0A$	--	0.49 0.62	-- 0.67	V
Typical Junction Capacitance	C_J	$V_R=0V, f=1.0MHz$	--	230	--	pF

NOTES:

1. Mounted on 50cm² FR-4 PCB board.



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RATING AND CHARACTERISTIC CURVES

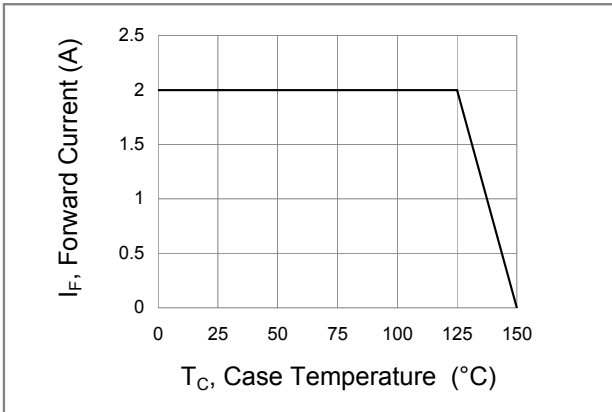


Fig.1 Forward Current Derating Curve

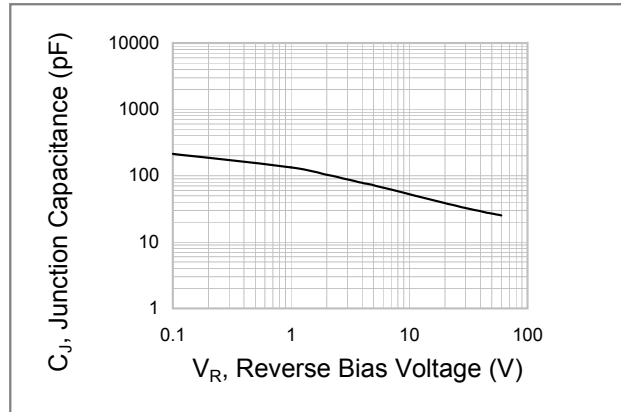


Fig.2 Typical Junction Capacitance

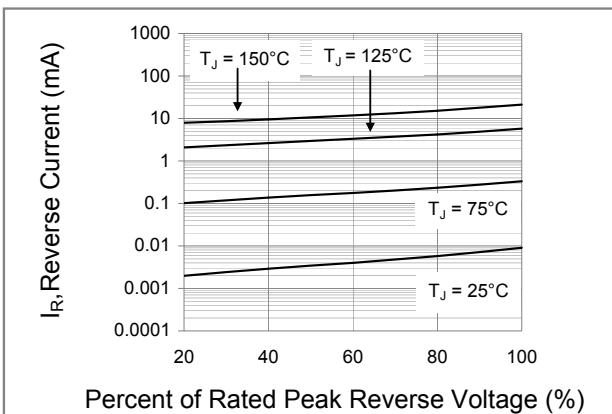


Fig.3 Typical Reverse Characteristics

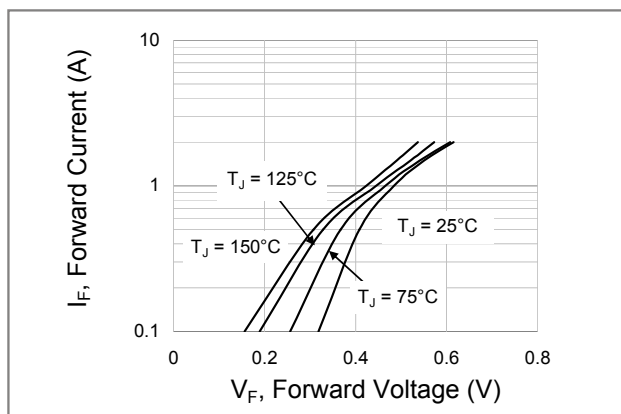


Fig.4 Typical Forward Characteristics

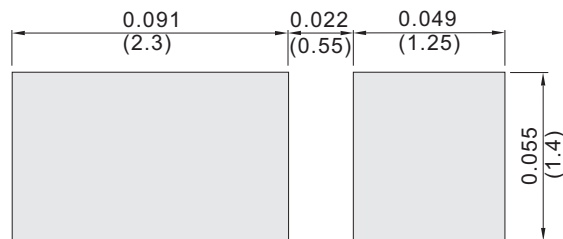


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MOUNTING PAD LAYOUT

SOD-123HE

Unit : inch(mm)



ORDER INFORMATION

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