



# SS2060LHE

## SURFACE MOUNT LOW VF SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 60 Volts **CURRENT** 2 Amperes

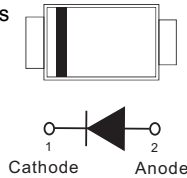
**SOD-123HE** Unit : inch(mm)

### FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC.
- High conductor
- Lead free in comply with EU RoHS 2002/95/EC directives.
- 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 (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V <sub>R</sub>	60	V
Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Average Rectified Current at Temp=75°C	I <sub>O</sub>	2	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	50	A
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Case (Note 1)	R <sub>θJA</sub> R <sub>θJC</sub>	200 15	°C/W
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V <sub>(BR)</sub>	I <sub>R</sub> =1mA	60	--	--	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =60 V	--	--	100	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1.0A I <sub>F</sub> =2.0A	--	0.49 0.62	-- 0.67	V
Typical Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1.0MHz	--	230	--	pF

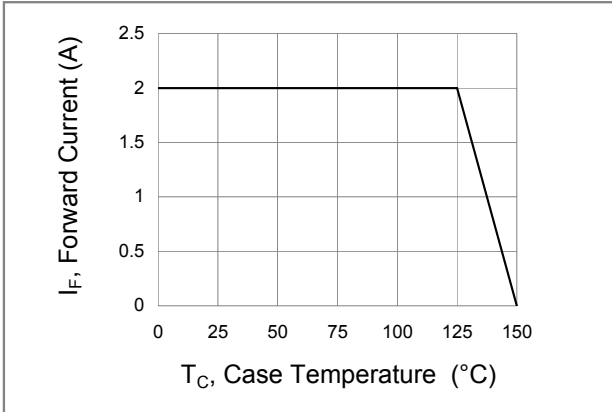
#### NOTES:

1. Mounted on 50cm<sup>2</sup> FR-4 PCB board.

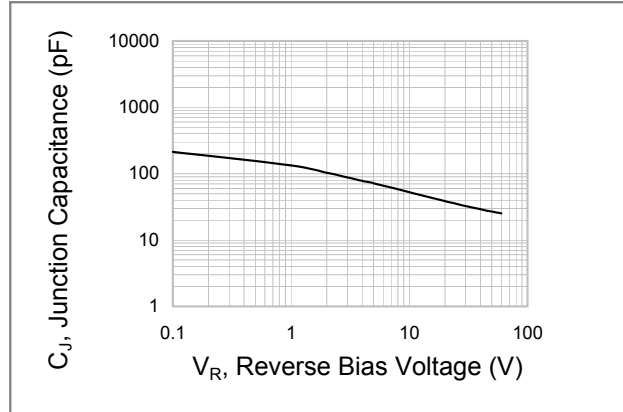


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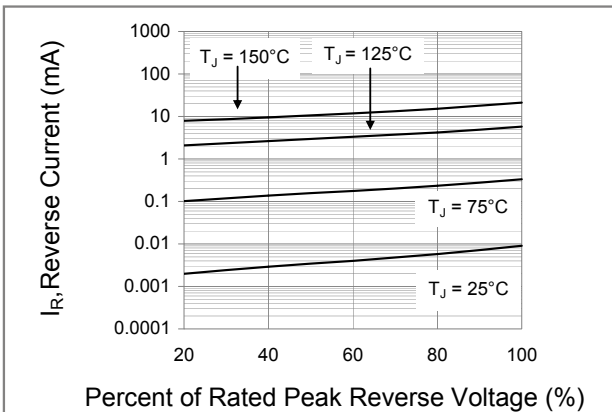
## RATING AND CHARACTERISTIC CURVES



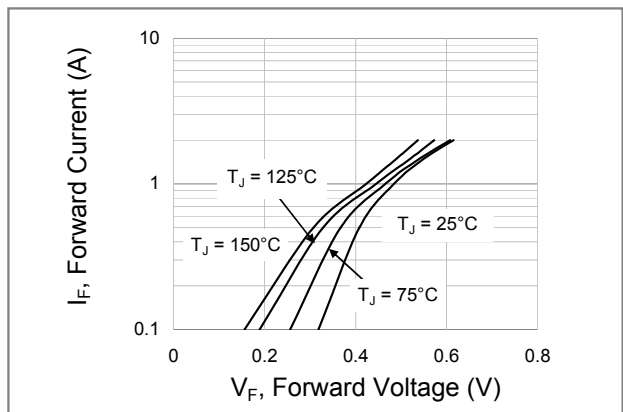
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**

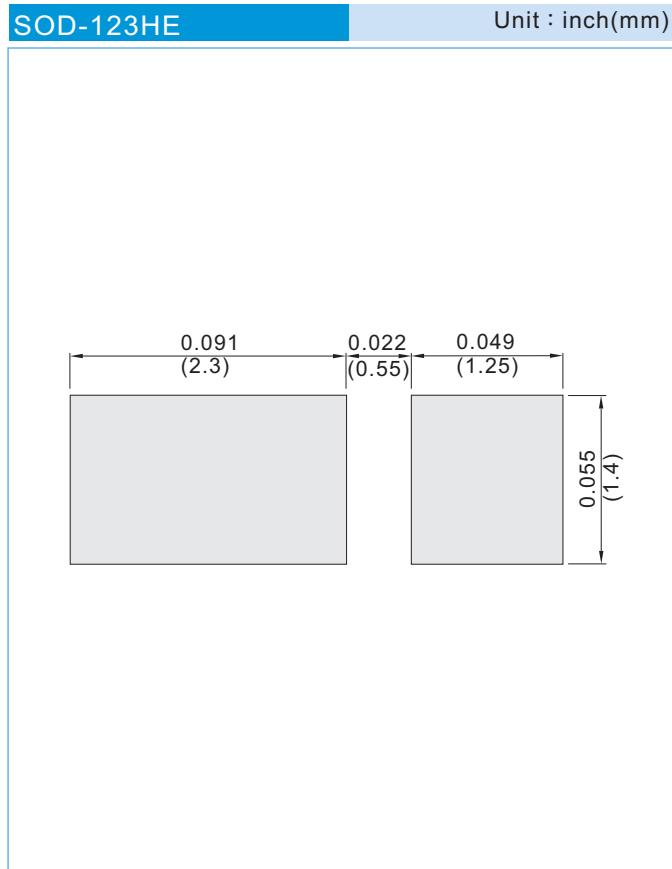


**Fig.4 Typical Forward Characteristics**



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

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

## LEGAL STATEMENT

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