



# SS2060LHE

## SURFACE MOUNT LOW VF SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 60 Volt **CURRENT** 2 Ampere

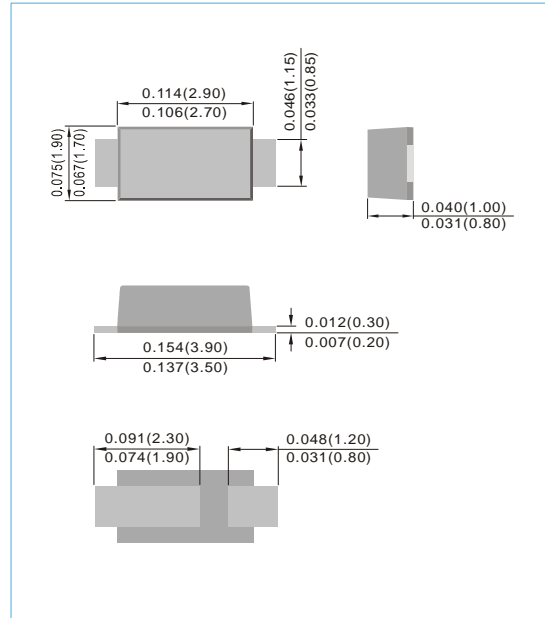
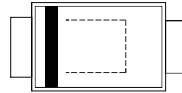
**SOD-123HE** Unit : inch(mm)

### 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: 0.0006 ounces, 0.0184 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     | I <sub>FSM</sub>                     | 50          | A     |
| Typical Thermal Resistance, Junction to Ambient (Note 1)<br>Junction to Case (Note 1) | R <sub>θJA</sub><br>R <sub>θJC</sub> | 200<br>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)

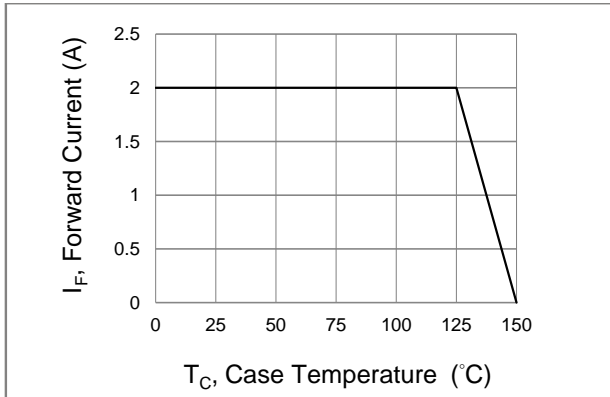
| PARAMETER                    | SYMBOL            | Test Condition                               | MIN. | TYP.         | MAX.       | UNITS |
|------------------------------|-------------------|--|------|--------------|------------|-------|
| Reverse Breakdown Voltage    | V <sub>(BR)</sub> | I <sub>R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

#### NOTES:

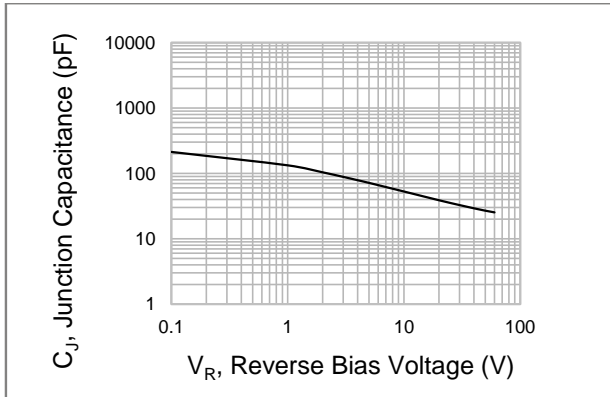
1. Mounted on 48cm<sup>2</sup> FR-4 PCB board.



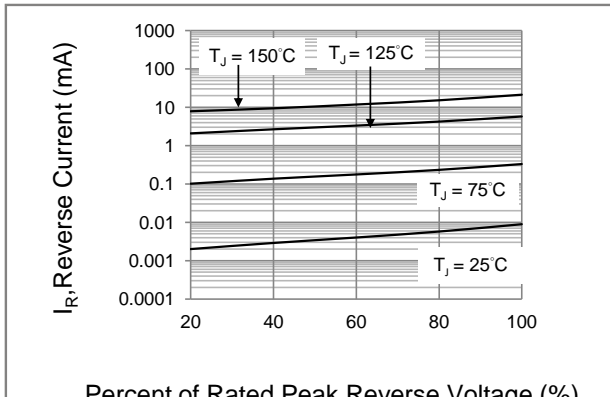
# SS2060LHE



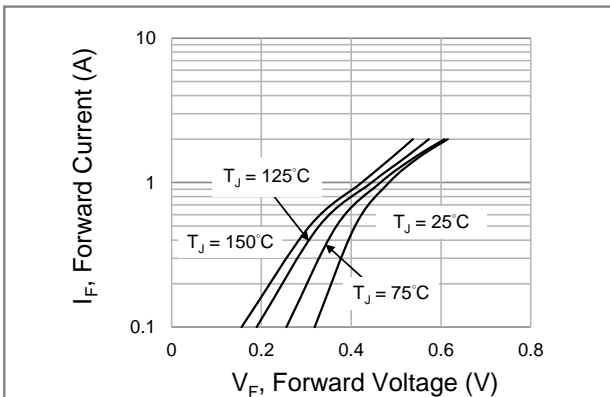
**Fig.1 Forward Current Derating Curve**



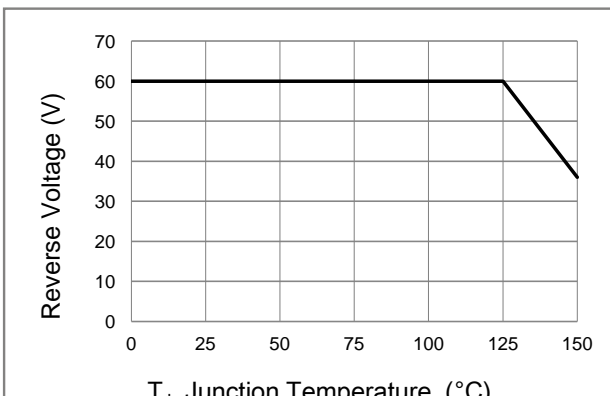
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



**Fig.5 Operating Temperature Derating Curve**

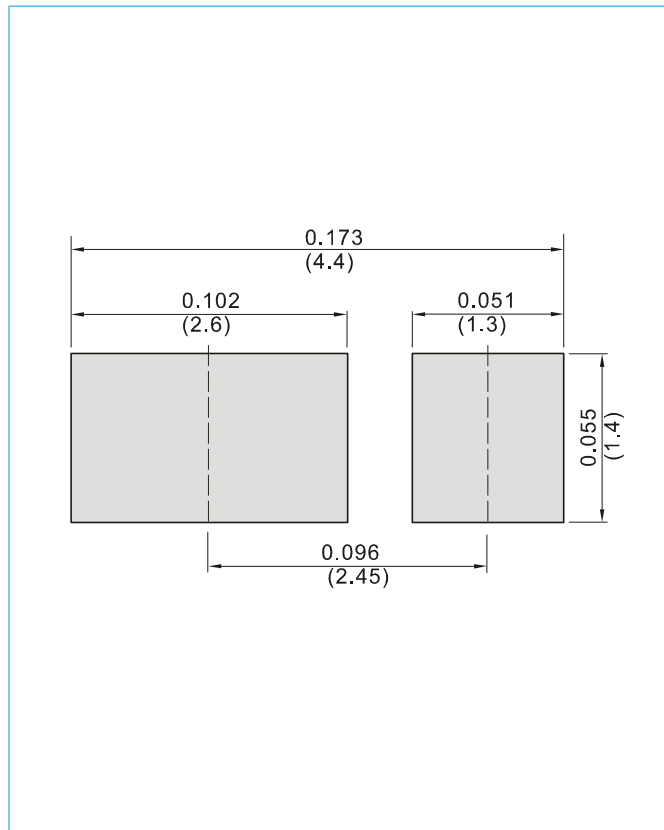


# SS2060LHE

## 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



# SS2060LHE

## Part No\_packing code\_Version

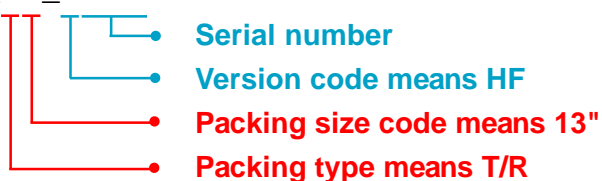
SS2060LHE\_R1\_00001

SS2060LHE\_R2\_00001

For example :

**RB500V-40\_R2\_00001**

Part No.



| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS                | 1 <sup>st</sup> Code | 2 <sup>nd</sup> -5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | <b>A</b>             | N/A                              | <b>0</b>             | <b>HF</b>                 | <b>0</b>             | serial number                         |
| Tape and Reel (T/R)                  | <b>R</b>             | 7"                               | <b>1</b>             | <b>RoHS</b>               | <b>1</b>             | serial number                         |
| Bulk Packing (B/P)                   | <b>B</b>             | 13"                              | <b>2</b>             |                           |                      |                                       |
| Tube Packing (T/P)                   | <b>T</b>             | 26mm                             | <b>X</b>             |                           |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | <b>S</b>             | 52mm                             | <b>Y</b>             |                           |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | <b>L</b>             | PANASERT T/B CATHODE UP (PBCU)   | <b>U</b>             |                           |                      |                                       |
| FORMING                              | <b>F</b>             | PANASERT T/B CATHODE DOWN (PBCD) | <b>D</b>             |                           |                      |                                       |



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