



SS2060LHE

SURFACE MOUNT LOW VF SCHOTTKY BARRIER RECTIFIER

VOLTAGE 60 Volt **CURRENT** 2 Ampere

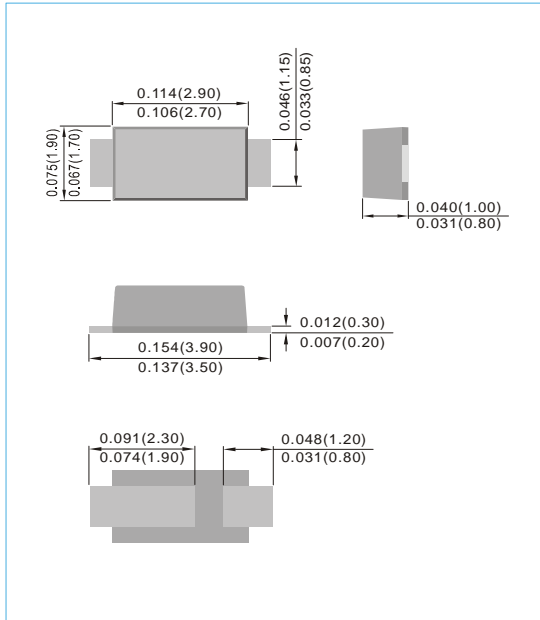
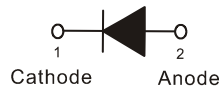
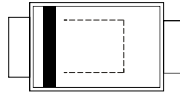
SOD-123HE Unit : inch(mm)

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
- Apprx. Weight: 0.0006 ounces, 0.0184 grams
- Polarity: Color band denotes cathode end
- Marking: EX



ABSOLUTE MAXIMUM RATINGS (T_A=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 | I _{FSM} | 50 | A |
| Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Case (Note 1) | R _{θJA} R _{θJC} | 200 15 | °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 | 60 | -- | -- | V |
| Reverse Current | I _R | V _R =60 V | -- | -- | 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 48cm² FR-4 PCB board.



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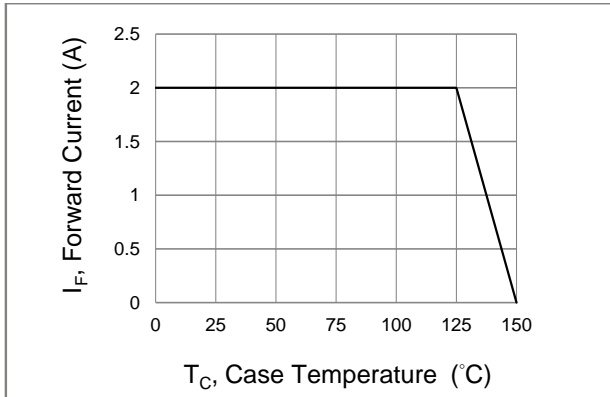


Fig.1 Forward Current Derating Curve

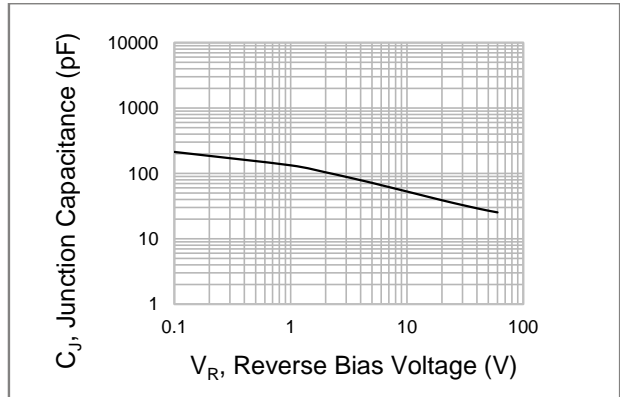


Fig.2 Typical Junction Capacitance

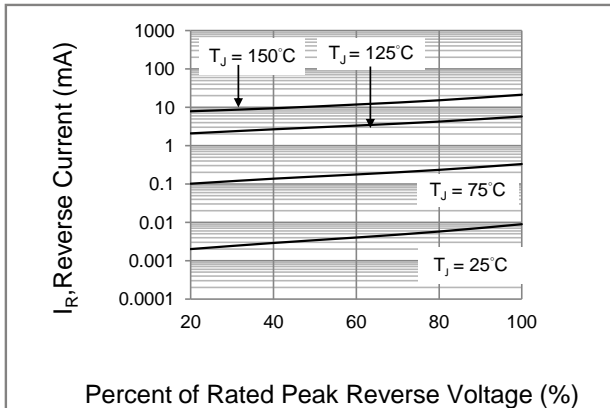


Fig.3 Typical Reverse Characteristics

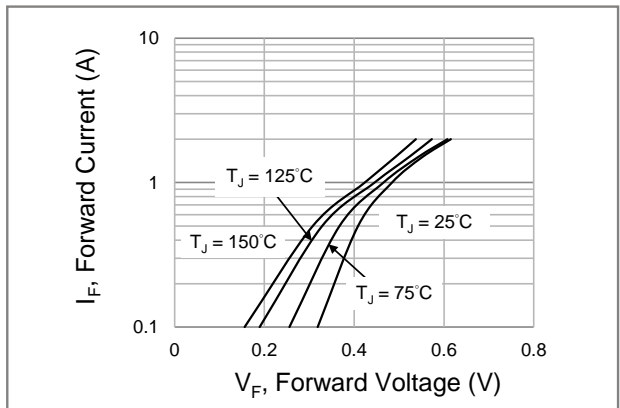


Fig.4 Typical Forward Characteristics

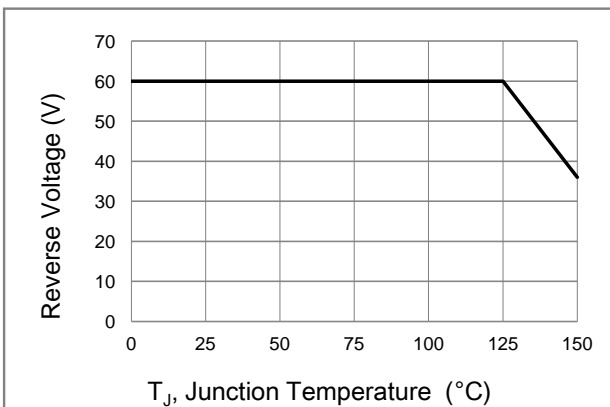


Fig.5 Operating Temperature Derating Curve

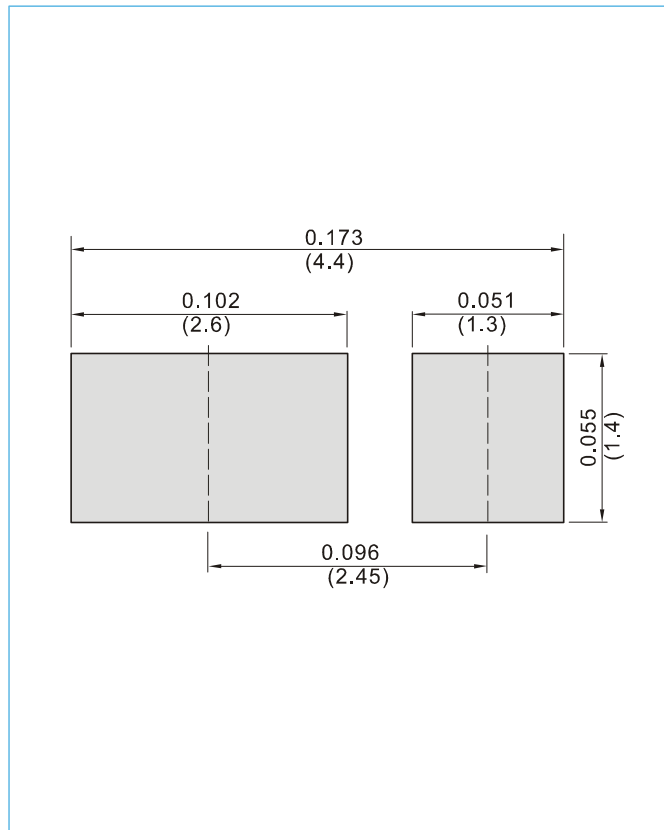


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MOUNTING PAD LAYOUT

SOD-123HE

Unit : inch(mm)



ORDER INFORMATION

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



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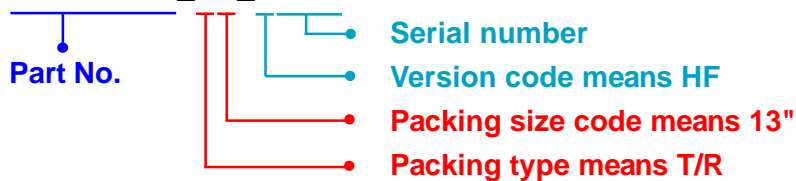
Part No_packing code_Version

SS2060LHE_R1_00001

SS2060LHE_R2_00001

For example :

RB500V-40_R2_00001



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



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