



SURFACE MOUNT RECTIFIER

VOLTAGE 400 to 800 Volts CURRENT

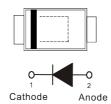
2 Amperes

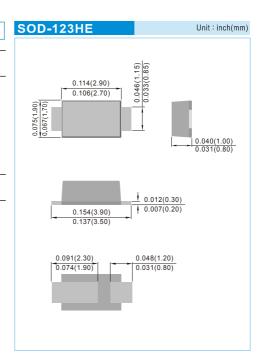
FEATURES

- · For surface mounted applications
- · Low profile package
- · Ideal for automated placement
- · Glass Passivated Chip Junction
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-123HE, Molded plastic over passivated junction
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Approx. Weight: 0.0001 ounce, 0.0042 gram
- Standard Packaging: 8mm tape (EIA-481)
- Polarity: Color band denotes cathode end





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| PARAMETER | SYMBOL | GS2004HE | GS2006HE | GS2008HE | UNITS |
|---|--------------------|-------------|----------|----------|--------|
| Marking Code | - | 4 H | 6H | 8 H | - |
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 400 | 600 | 800 | V |
| Maximum RMS Voltage | V _{RMS} | 280 | 420 | 560 | V |
| Maximum DC Blocking Voltage | V _{DC} | 400 | 600 | 800 | V |
| Maximum Average Forward Currenth at T _L =100 °C | I _{F(AV)} | 2.0 | | | А |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method) | I _{FSM} | 50 | | | А |
| Maximum Forward Voltage at 2.0A | V _F | 1.1 | | | V |
| Maximum DC Reverse Current at Rated $T_J=25^{\circ}C$ DC Blocking Voltage $T_J=125^{\circ}C$ | I _R | 1.0 50 | | | μΑ |
| Typical Junction capacitance (Note 1) | CJ | 12 | | | pF |
| Typical Thermal Resistance (Note 2) | $R_{_{	hetaJL}}$ | 10 | | | °C / W |
| Operating and Storage Temperature Range | T_J,T_STG | -55 to +150 | | | °C |

NOTES:

- 1. Measured at 1 MHz and applied $V_r = 4.0$ volts.
- 2. 8.0 mm² (.013mm thick) land areas.





RATING AND CHARACTERISTIC CURVES

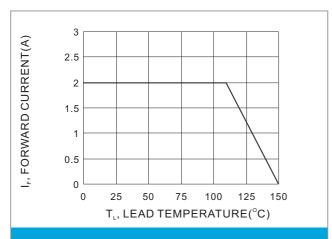


FIG.1 FORWARD CURRENT DERATING CURVE

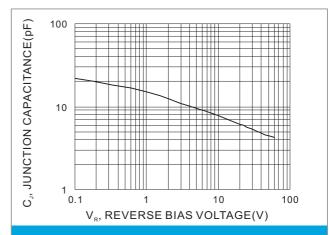


FIG.2 TYPICAL JUNCTION CAPACITANCE

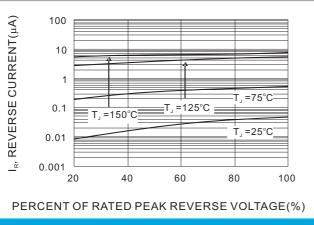


FIG.3 TYPICAL REVERSE CHARACTERISTICS

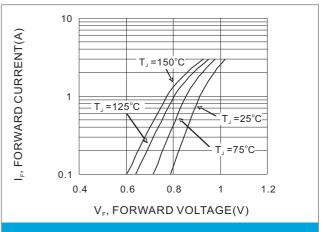
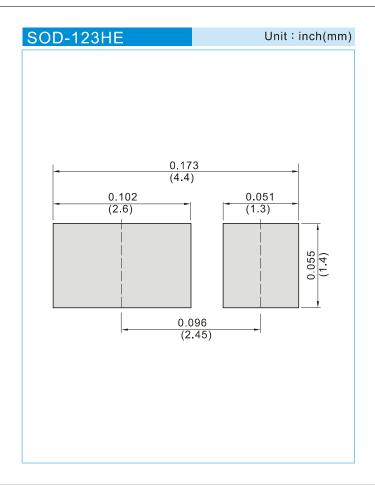


FIG.4 TYPICAL FORWARD CHARACTERISTICS





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

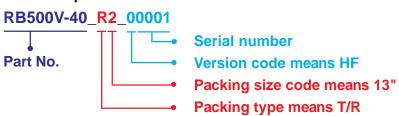




Part No_packing code_Version

GS2004HE_R1_00001 GS2004HE_R2_00001

For example:



| 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) | Α | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | В | 13" | 2 | | | |
| Tube Packing (T/P) | Т | 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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