

GS1006HE-AU

SURFACE GENERAL PURPOSE RECTIFIERS

CURRENT

VOLTAGE

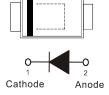
FEATURES

- For surface mounted applications in order to optimize board space
- Ideal for automated placement
- High temperature soldering : 260°C /10 seconds at terminals
- Glass Passivated Chip Junction
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

600 Volt

MECHANICAL DATA

- Case: SOD-123HE, Molded plastic over passivated junction
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounce, 0.0184 gram
- Standard Packaging: 8mm tape (EIA-481)
- Polarity: Color band denotes cathode end



1 Ampere

$\begin{array}{c} 0.114(2.90) \\ \hline 0.106(2.70) \\ \hline 0.001} \\ \hline 0.106(2.70) \\ \hline 0.001} \\ \hline 0.001(0.20) \\ \hline 0.031(0.80) \\ \hline 0.031(0.80) \\ \hline 0.007(0.20) \\ \hline 0.091(2.30) \\ \hline 0.091(2.30) \\ \hline 0.091(2.30) \\ \hline 0.091(2.30) \\ \hline 0.001(0.80) \\ \hline \end{array}$

Unit : inch(mm)

SOD-123HE

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

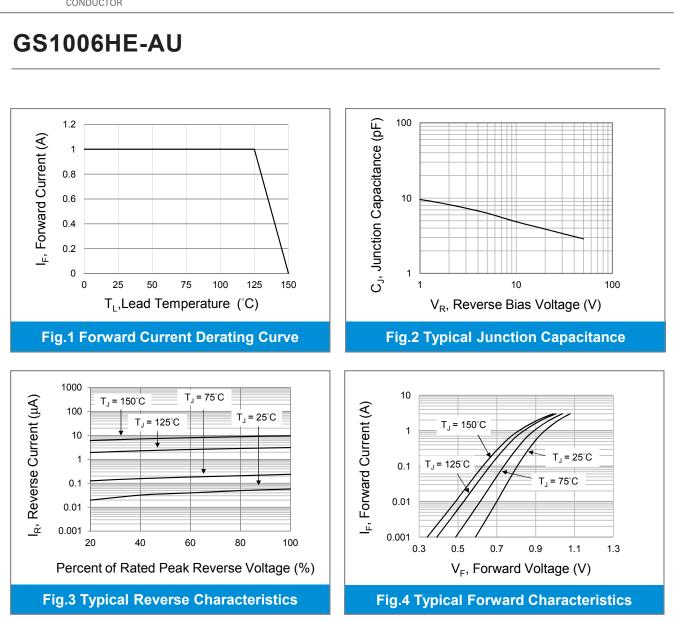
| PARAMETER | SYMBOL | VALUE | UNITS |
|---|----------------------------------|-------------|--------|
| Marking Code | - | H1J | - |
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 600 | v |
| Maximum RMS Voltage | V _{RMS} | 420 | v |
| Maximum DC Blocking Voltage | V _R | 600 | v |
| Maximum Average Forward Current | I _{F(AV)} | 1 | A |
| Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load | I _{fsm} | 30 | A |
| Maximum Forward Voltage at 1A | V _F | 1.1 | v |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 1 | μΑ |
| Typical Junction Capacitance at Vr=0V | C | 15 | pF |
| Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2) | $R_{_{	ext{	hetaJA}}}$ | 170 32 | °C / W |
| Operating Junction Temperature and Storage Temperature Range | T _J ,T _{stg} | -55 to +150 | °C |

NOTES :

1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area

2. Mounted on a FR4 PCB, single-sided copper, standard footprint





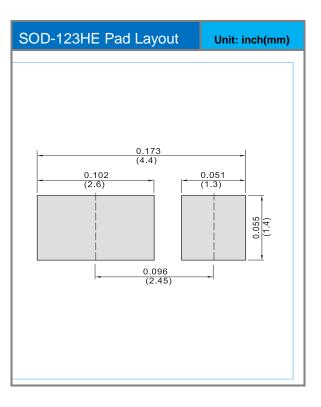


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Product and Packing Information

| Part No. | Package Type | Packing Type | Marking |
|-------------|--------------|--------------------|---------|
| GS1006HE-AU | SOD-123HE | 3K pcs / 7" reel | H1J |
| GS1006HE-AU | SOD-123HE | 10K pcs / 13" reel | H1J |

Mounting Pad Layout





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