



GS1004HE SERIES

SURFACE GENERAL PURPOSE RECTIFIERS

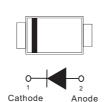
VOLTAGE 400 to 800 Volts CURRENT 1 Ampere

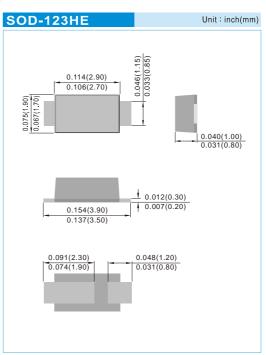
FEATURES

- For surface mounted applications
- · Low profile package
- Ideal for automated placement
- High temperature soldering : 260°C /10 seconds at terminals
- Glass Passivated Chip Junction
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOD-123HE, Molded plastic over passivated junction
- Terminals: 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 (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	GS1004HE	GS1006HE	GS1008HE	UNITS
Marking Code	-	H1G	H1J	H1K	-
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 _R	400	600	800	V
Maximum Average Forward Current	I _{F(AV)}	1			А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30			А
Maximum Forward Voltage at 1.0A	V _F	1.1			V
Maximum DC Reverse Current at $T_J=25^{\circ}C$ Rated DC Blocking Voltage $T_J=125^{\circ}C$	I _R	1 50			μΑ
Typical Junction Capacitance at VR=0V	C¹	15			pF
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	R _{eja} R _{ejl}	110 F€			°C / W
Operating Junction Temperature and Storage Temperature Range	T _J ,T _{STG}	-55 to +150			°C

NOTES:

- 1. Mounted on minimum pad layout(1cmX1cm board).
- 2. Mounted on 50cm² copper pad area.

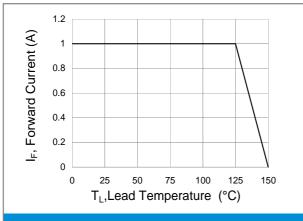
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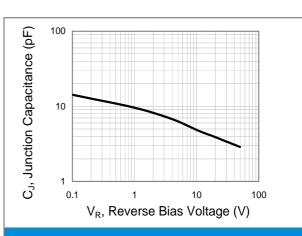


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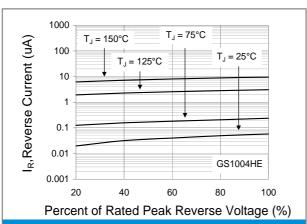
RATING AND CHARACTERISTIC CURVES



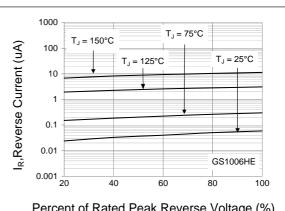
:]['%: cfk UfX'7i ffYbh8 YfUh]b['7i fj Y



:]["&'Hmd]WU' >i bWf]cb'7 UdUV]hUbWY

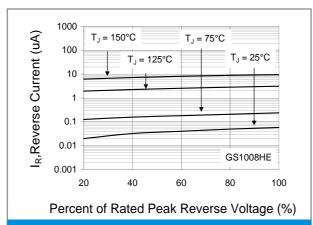


:][" 'Hnd]WU'FYj YfgY'7\ UfUWYf]gh]Wg

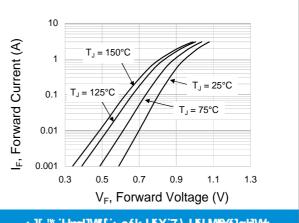


Percent of Rated Peak Reverse Voltage (%)

:]['('Hnd]WU'FYj YfgY'7\ UfUWYYf]gh]Wg



:][') 'Hmd]WU'FYj YfgY'7\ UfUWYYf]gh]Wg



:][" 'Hmd]WU': cfk UfX'7 \ UfUWNYf]gh]Wg

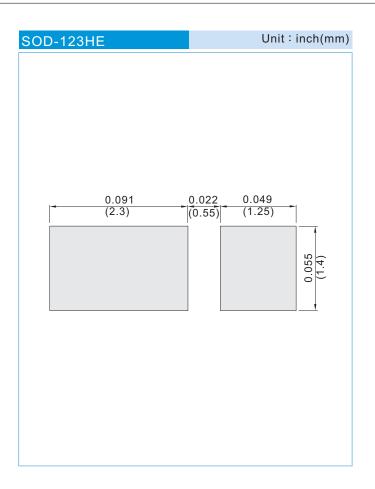
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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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