

GS1004HE SERIES

SURFACE GENERAL PURPOSE RECTIFIERS

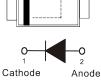
VOLTAGE 400 to 1000 Volt CURRENT

FEATURES

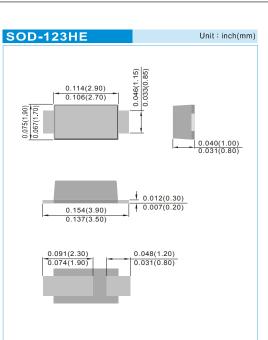
- · For surface mounted applications in order to optimize board space
- · Ideal for automated placement
- High temperature soldering : 260°C /10 seconds at terminals
- Glass Passivated Chip Junction
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

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



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

PARAMETER	SYMBOL	GS1004HE	GS1006HE	GS1008HE	GS1010HE	UNITS
Marking Code	-	H1G	H1J	H1K	H1M	-
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	400	600	800	1000	v
Maximum RMS Voltage	V _{RMS}	280	420	560	700	V
Maximum DC Blocking Voltage	V _R	400	600	800	1000	V
Maximum Average Forward Current	I _{F(AV)}	1				А
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	I _{fsm}	30			А	
Maximum Forward Voltage at 1A	V _F	1.1				v
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	1				μA
Typical Junction Capacitance at VR=0V	C	15				рF
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	R _{eja} R _{ejl}	170 32				°C / W
Operating Junction Temperature and Storage Temperature Range		-55 to +150				°C

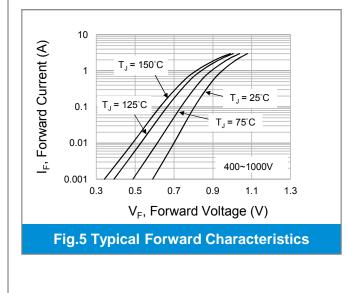
NOTES :

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

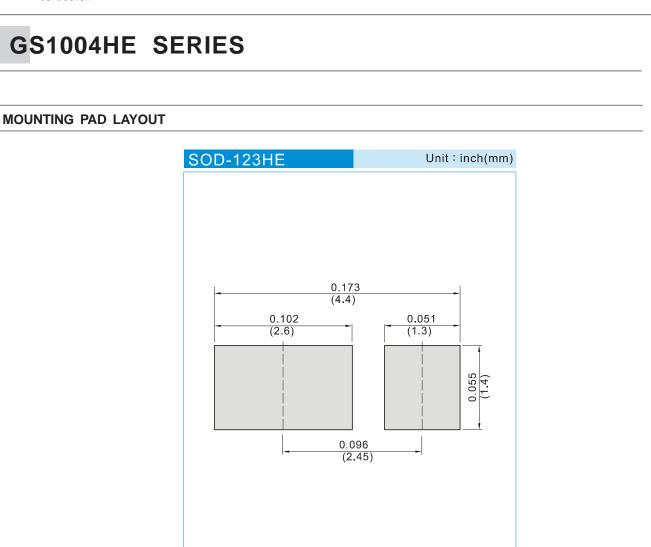
2. Mounted on a FR4 PCB, single-sided copper, mini pad.



GS1004HE SERIES 100 C_J, Junction Capacitance (pF) 1.2 I_F, Forward Current (A) 400~1000V 1 0.8 10 0.6 0.4 0.2 1 0 10 0 50 75 100 125 100 25 150 1 T_L,Lead Temperature (°C) V_R, Reverse Bias Voltage (V) **Fig.2 Typical Junction Capacitance Fig.1 Forward Current Derating Curve** 1000 1000 T_J = 75°C T_ = 150°C Reverse Current (µA) T_J = 150°C Reverse Current (µA) 100 T_I = 25°C 100 T_J = 125°C 10 10 T_J= 125°C 1 1 0.1 T_J = 75°C 0.01 0.1 400~800V T_J = 25°C 1000V <u>ŕ</u> 0.001 0.01 20 40 60 80 100 20 40 60 80 100 Percent of Rated Peak Reverse Voltage (%) Percent of Rated Peak Reverse Voltage (%) **Fig.3 Typical Reverse Characteristics Fig.4 Typical Reverse Characteristics**







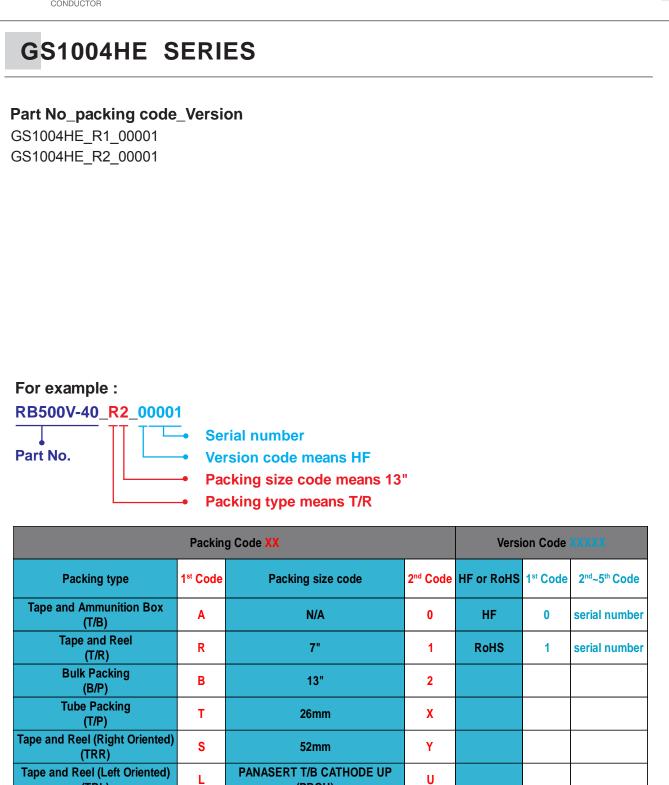
ORDER INFORMATION

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

T/R - 3K per 7" plastic Reel

10 M





(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

D

(TRL)

FORMING

F





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

GS1008HE_R1_00001 GS1008HE_R1_10001 GS1008HE_R2_10001 GS1008HE_R2_00001