PANJIT SEMI CONDUCTOR

GS1004HE SERIES

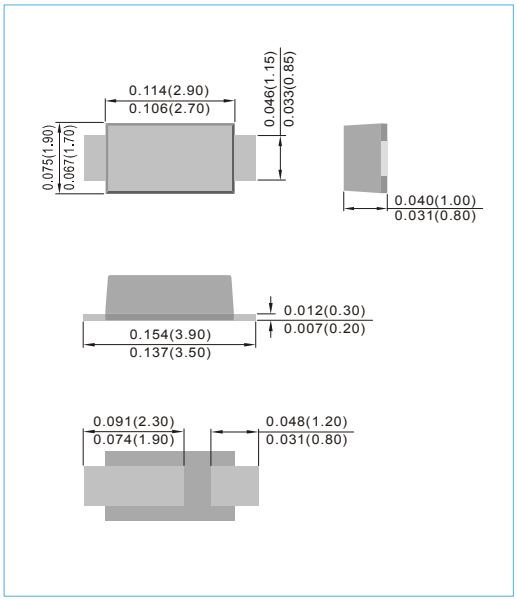
SURFACE GENERAL PURPOSE RECTIFIERS

VOLTAGE 400 to 1000 Volt **CURRENT** 1 Ampere

FEATURES

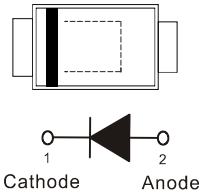
- For surface mounted applications in order to optimize board space
- Ideal for automated placement
- High temperature soldering : 260°C /10 seconds at terminals
- Glass Passivated Chip Junction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

SOD-123HE Unit : inch(mm)



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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=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				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				μA
Typical Junction Capacitance at V_R=0V	C_J	15				pF
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	$R_{\theta JA}$ $R_{\theta JL}$	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 100cm^2 copper pad area
2. Mounted on a FR4 PCB, single-sided copper, mini pad.

GS1004HE SERIES

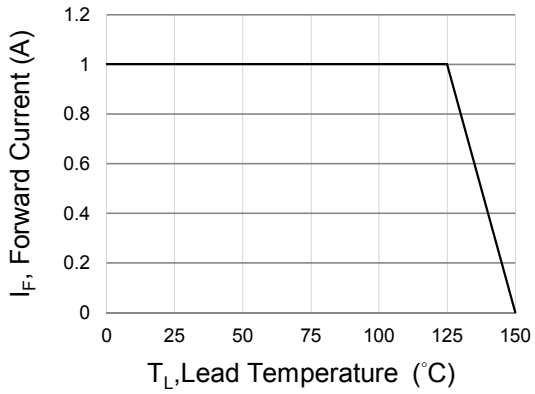


Fig.1 Forward Current Derating Curve

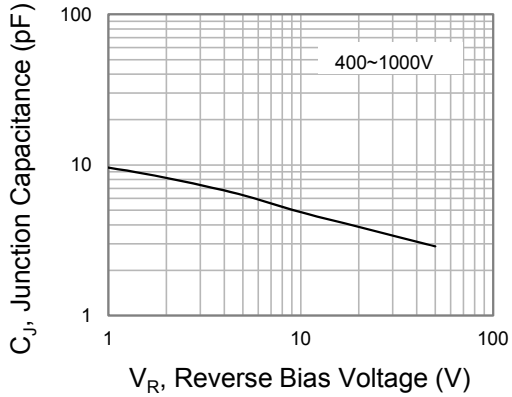


Fig.2 Typical Junction Capacitance

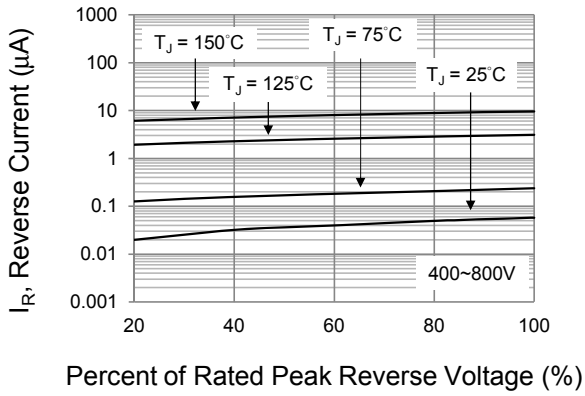


Fig.3 Typical Reverse Characteristics

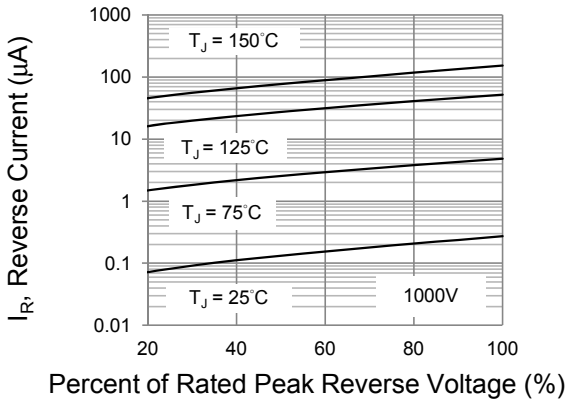


Fig.4 Typical Reverse Characteristics

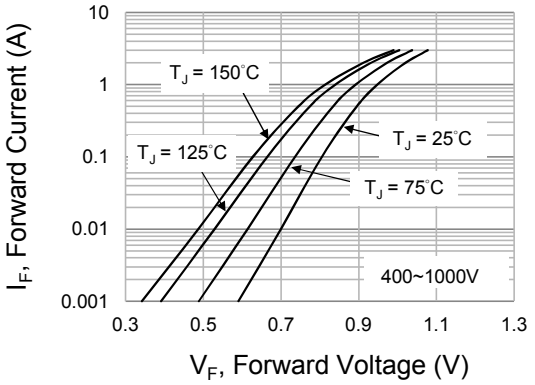
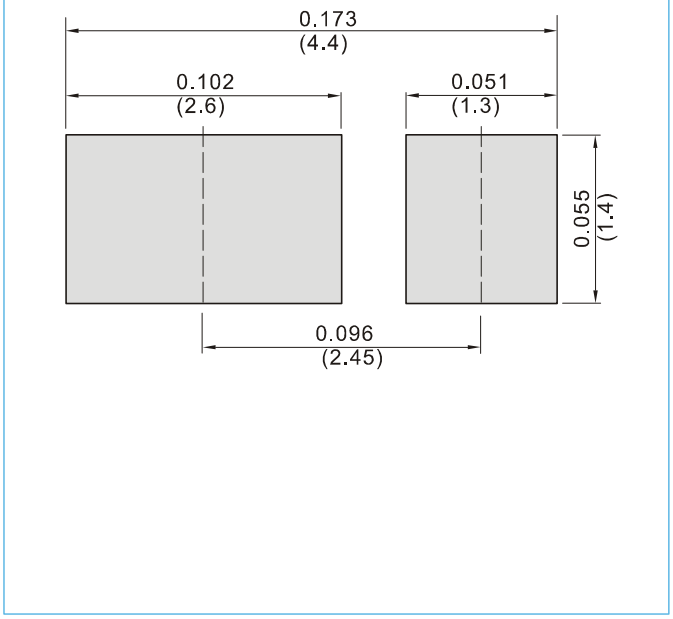


Fig.5 Typical Forward Characteristics

GS1004HE SERIES

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

GS1004HE SERIES

Part No_packing code_Version

GS1004HE_R1_00001

GS1004HE_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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			

GS1004HE SERIES

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