GS2004HE SERIES

SURFACE MOUNT RECTIFIER

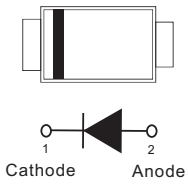
VOLTAGE 400 to 800 Volts **CURRENT** 2 Amperes

FEATURES

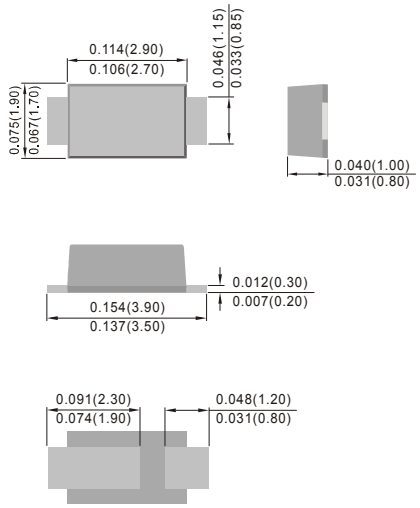
- For surface mounted applications
- Low profile package
- Ideal for automated placement
- Glass Passivated Chip Junction
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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



SOD-123HE Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GS2004HE	GS2006HE	GS2008HE	UNITS
Marking Code	-	4H	6H	8H	-
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			A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	50			A
Maximum Forward Voltage at 2.0A	V_F	1.1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J=25°C T_J=125°C	I_R	1.0 50			μA
Typical Junction capacitance (Note 1)	C_J	12			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	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 mm^2 (.013mm thick) land areas.

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RATING AND CHARACTERISTIC CURVES

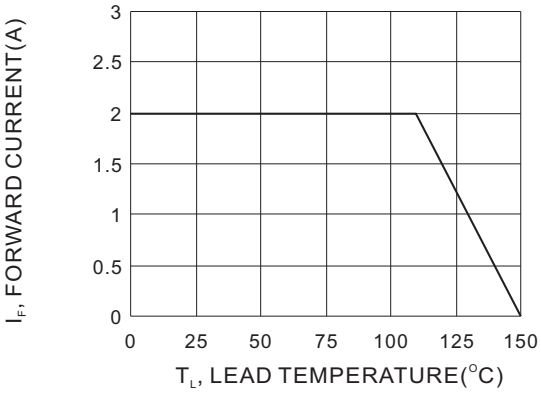


FIG.1 FORWARD CURRENT DERATING CURVE

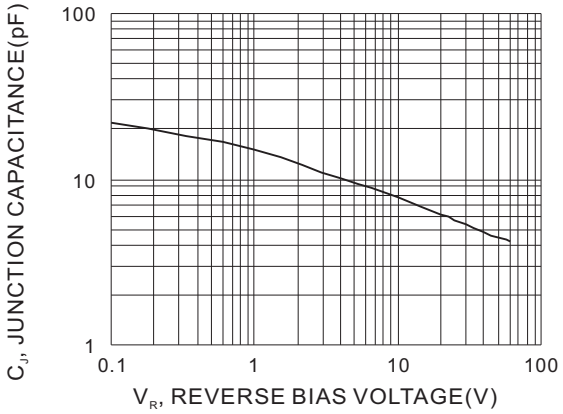


FIG.2 TYPICAL JUNCTION CAPACITANCE

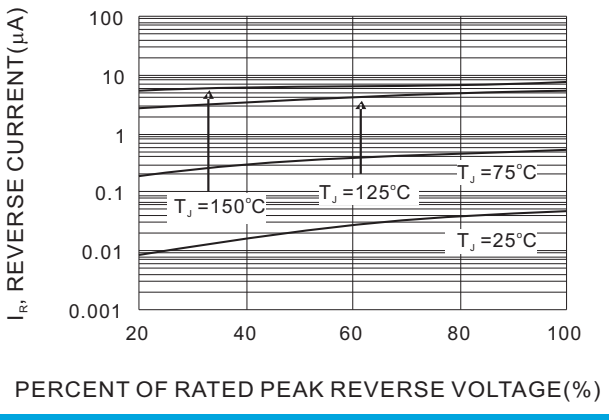


FIG.3 TYPICAL REVERSE CHARACTERISTICS

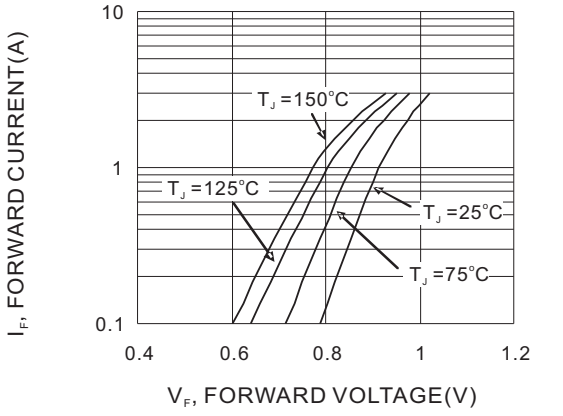
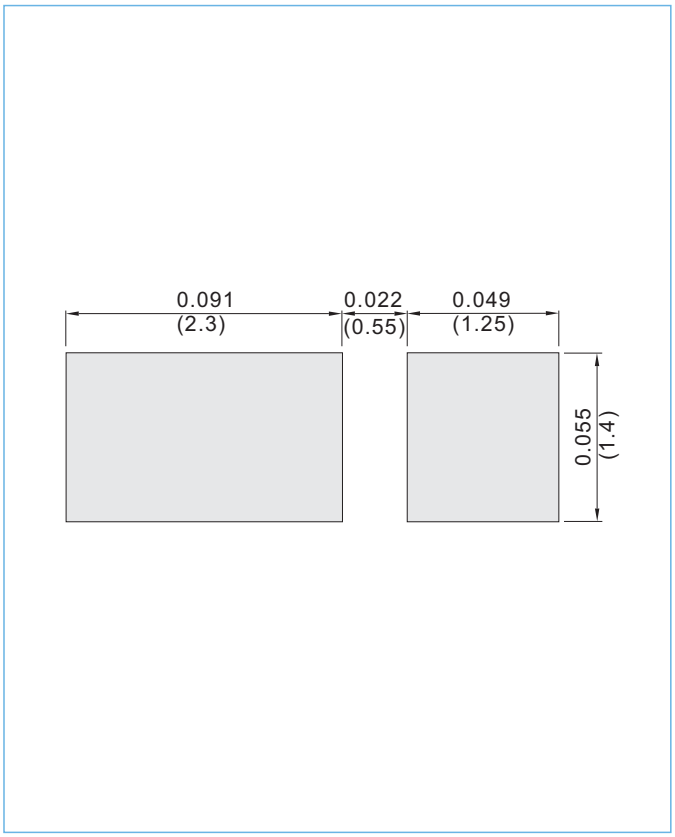


FIG.4 TYPICAL FORWARD CHARACTERISTICS

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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

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Part No_packing code_Version

GS2004HE_R1_00001
GS2004HE_R2_00001

For example :

RB500V-40_R2_00001

- Part No.
- Packing type means T/R
- Packing size code means 13"
- Version code means HF
- Serial number

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			

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