



### SURFACE MOUNT RECTIFIER

VOLTAGE 400 to 800 Volts CURRENT

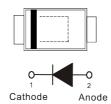
2 Amperes

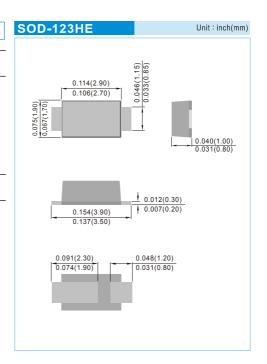
### **FEATURES**

- · 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





### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	GS2004HE	GS2006HE	GS2008HE	UNITS
Marking Code	-	4 H	6H	8 H	-
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	400	600	800	V
Maximum RMS Voltage	V <sub>RMS</sub>	280	420	560	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	400	600	800	V
Maximum Average Forward Currenth at T <sub>L</sub> =100 °C	I <sub>F(AV)</sub>	2.0			А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	50			А
Maximum Forward Voltage at 2.0A	V <sub>F</sub>	1.1			V
Maximum DC Reverse Current at Rated $T_J=25^{\circ}C$ DC Blocking Voltage $T_J=125^{\circ}C$	I <sub>R</sub>	1.0 50			μΑ
Typical Junction capacitance (Note 1)	CJ	12			pF
Typical Thermal Resistance (Note 2)	$R_{_{ hetaJL}}$	10			°C / W
Operating and Storage Temperature Range	$T_J,T_STG$	-55 to +150			°C

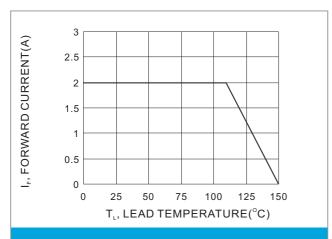
#### NOTES:

- 1. Measured at 1 MHz and applied  $V_r = 4.0$  volts.
- 2. 8.0 mm<sup>2</sup> ( .013mm thick ) land areas.





### **RATING AND CHARACTERISTIC CURVES**



### FIG.1 FORWARD CURRENT DERATING CURVE

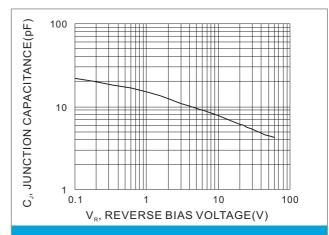


FIG.2 TYPICAL JUNCTION CAPACITANCE

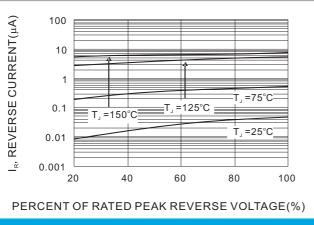


FIG.3 TYPICAL REVERSE CHARACTERISTICS

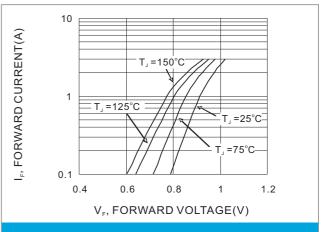
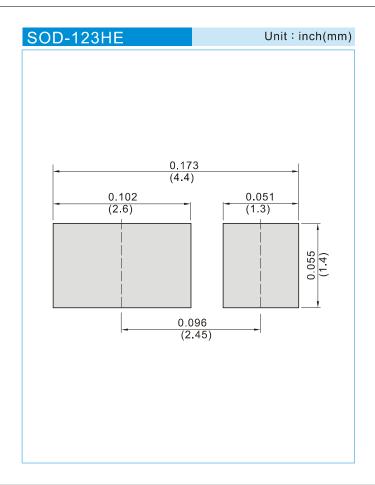


FIG.4 TYPICAL FORWARD CHARACTERISTICS





### MOUNTING PAD LAYOUT



### **ORDER INFORMATION**

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





## Part No\_packing code\_Version

GS2004HE\_R1\_00001 GS2004HE\_R2\_00001

## For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	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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