



#### SURFACE GENERAL PURPOSE RECTIFIERS

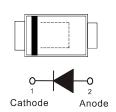
VOLTAGE 400 to 1000 Volt CURRENT 1 Ampere

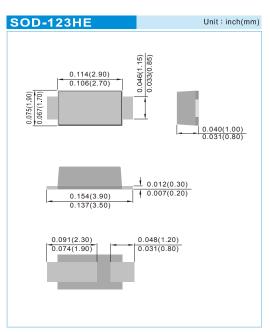
#### **FEATURES**

- · 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

#### **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 (TA=25°C unless otherwise noted)

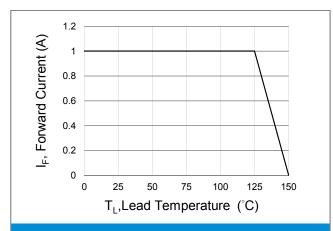
DADAMETED	SYMBOL	004004115	004000115	004000115	004040115	LINUTO
PARAMETER	SYMBOL	GS1004HE	GS1006HE	GS1008HE	GS1010HE	UNITS
Marking Code		H1G H1J		H1K	н1К н1М	
Maximum Recurrent Peak Reverse Voltage		400	600	800	1000	V
Maximum RMS Voltage		280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>R</sub>	400	600	800	1000	V
Maximum Average Forward Current	I <sub>F(AV)</sub>		А			
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	I <sub>FSM</sub>		Α			
Maximum Forward Voltage at 1A	V <sub>F</sub>		V			
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>		μΑ			
Typical Junction Capacitance at VR=0V	CJ		pF			
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	$R_{_{\theta JL}}$	170 32				°C / W
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150				

#### NOTES:

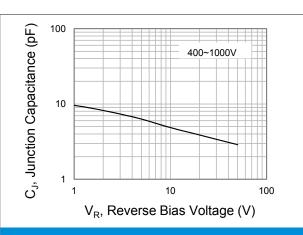
- 1. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area
- 2. Mounted on a FR4 PCB, single-sided copper, mini pad.







**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

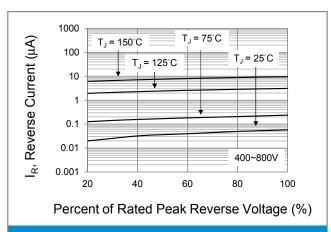


Fig.3 Typical Reverse Characteristics

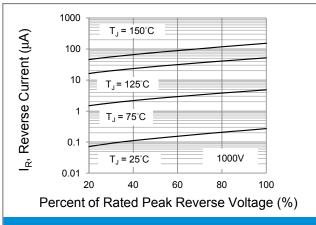
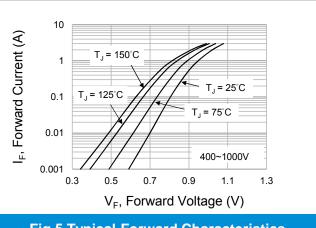


Fig.4 Typical Reverse Characteristics

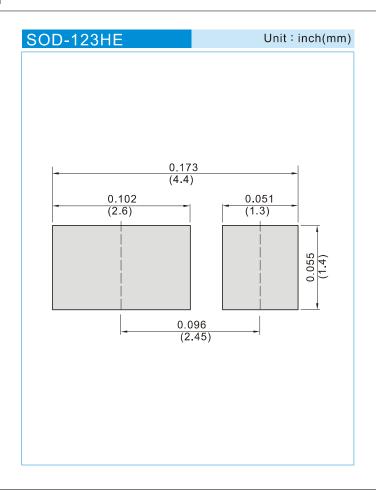


**Fig.5 Typical Forward Characteristics** 





#### 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

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	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)	A	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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