



SURFACE MOUNT RECTIFIER

VOLTAGE

400 to 800 Volts CURRENT

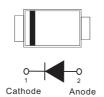
2 Amperes

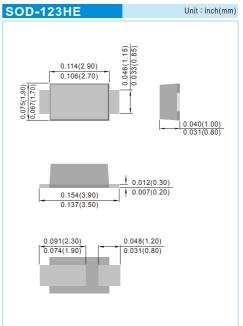
FEATURES

- · 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 _{RRM}	400	600	800	V
Maximum RMS Voltage	V _{RMS}	280	420	560	V
Maximum DC Blocking Voltage	V _{DC}	400	600	800	٧
Maximum Average Forward Currenth at T _L =100 °C	I _{F(AV)}	2.0			Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	50			Α
Maximum Forward Voltage at 2.0A	V _F	1.1			V
Maximum DC Reverse Current at Rated T _J =25°C DC Blocking Voltage T _J =125°C	I _R	1.0 50			μΑ
Typical Junction capacitance (Note 1)	CJ	C _J 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 mm² (.013mm thick) land areas.

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RATING AND CHARACTERISTIC CURVES

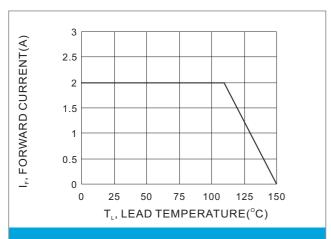


FIG.1 FORWARD CURRENT DERATING CURVE

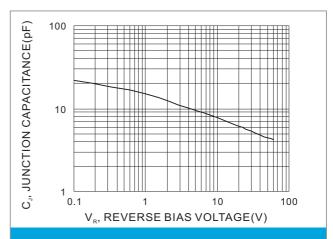


FIG.2 TYPICAL JUNCTION CAPACITANCE

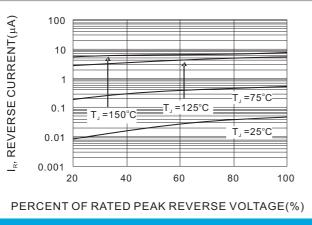


FIG.3 TYPICAL REVERSE CHARACTERISTICS

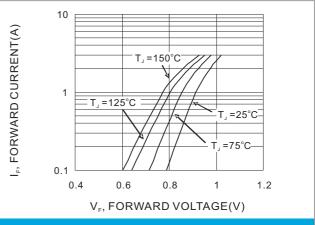


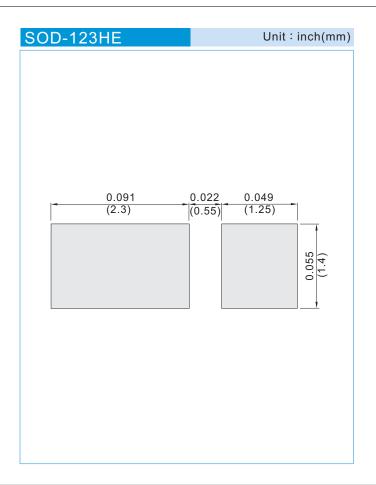
FIG.4 TYPICAL FORWARD CHARACTERISTICS

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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

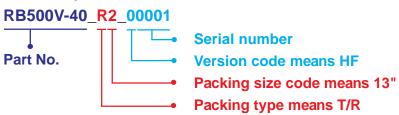




Part No_packing code_Version

GS2004HE_R1_00001 GS2004HE_R2_00001

For example :



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