

GS2004HE-AU

SURFACE MOUNT RECTIFIER

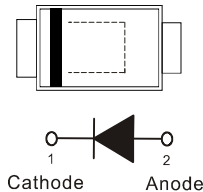
VOLTAGE 400 Volt **CURRENT** 2 Ampere

FEATURES

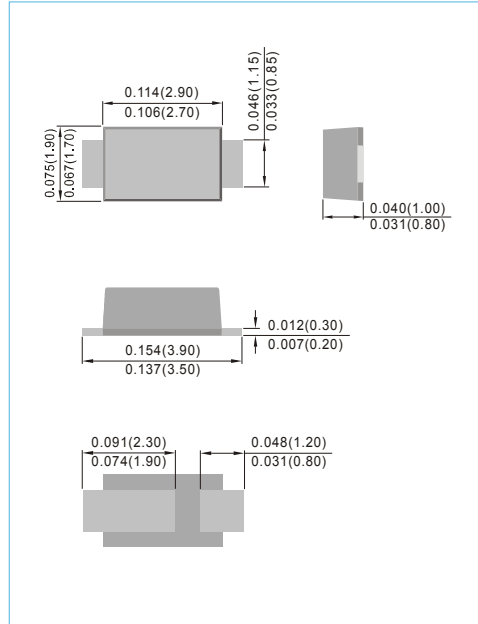
- For surface mounted applications in order to optimize board space
- Low profile package
- Ideal for automated placement
- Glass Passivated Chip Junction
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-123HE, Molded plastic over passivated junction
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0184 grams
- 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	VALUE	UNITS
Marking Code	-	4H	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS Voltage	V_{RMS}	280	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Maximum Average Forward Current at $T_L=100^\circ\text{C}$	$I_{F(AV)}$	2.0	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50	A
Maximum Forward Voltage at 2.0A	V_F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$	I_R	1.0 50	μA
Typical Junction capacitance (Note 1)	C_J	12	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	10	$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

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

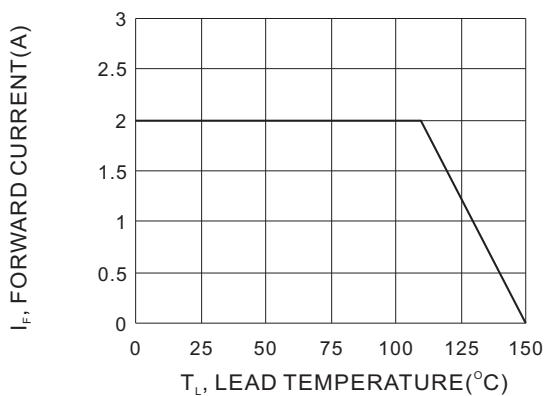


FIG.1 FORWARD CURRENT DERATING CURVE

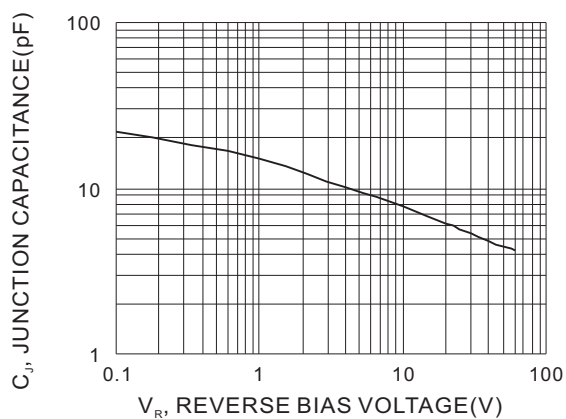


FIG.2 TYPICAL JUNCTION CAPACITANCE

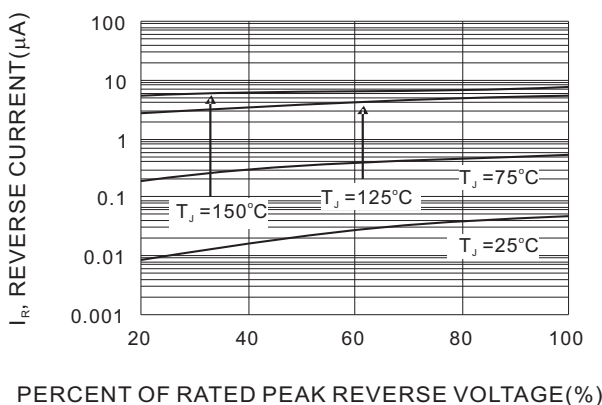


FIG.3 TYPICAL REVERSE CHARACTERISTICS

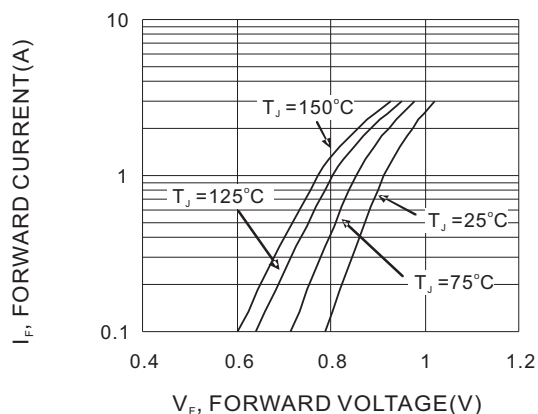


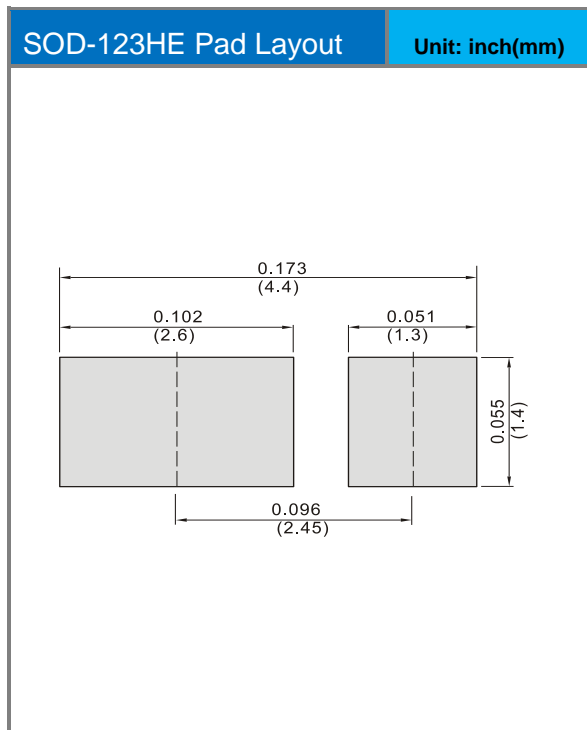
FIG.4 TYPICAL FORWARD CHARACTERISTICS

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GS2004HE-AU	SOD-123HE	3K pcs / 7" reel	4H
GS2004HE-AU	SOD-123HE	10K pcs / 13" reel	4H

Mounting Pad Layout



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