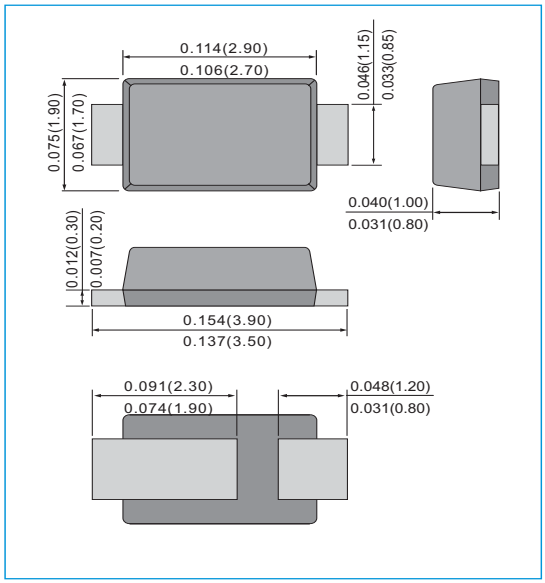
PANJIT SEMI CONDUCTOR

SURFACE MOUNT RECTIFIER

VOLTAGE 800 Volts **CURRENT** 1.0 Amperes

SOD-123HE Unit:inch(mm)

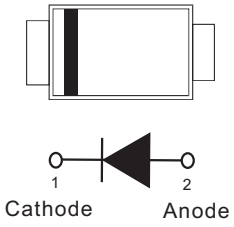


FEATURES

- For surface mounted applications
- Low profile package
- Easy pick and place
- Low Forward Drop
- Glass Passivated Chip Junction
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOD-123HE molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Indicated by cathode band



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase,half wave,60Hz,resistive or inductive load.
For capacitive load,derate current by 20%

PARAMETER	SYMBOL	GS2008HE	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	V
Maximum RMS Voltage	V_{RMS}	560	V
Maximum DC Blocking Voltage	V_{DC}	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 1.0A	V_F	1.1	V
Maximum DC Reverse Current at T_J=25°C Rated DC Blocking Voltage T_J=125°C	I_R	1.0 50	μA
Typical Junction capacitance (Note 1)	C_J	12	pF
Typical Junction Resistance(Note 2)	$R_{\theta JL}$	100	°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.

PRELIMINARY

GS2008HE

RATING AND CHARACTERISTIC CURVES

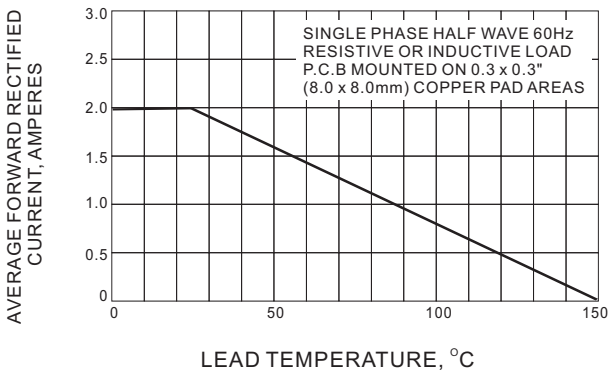
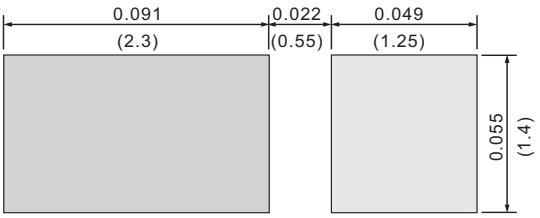


Fig.1 FORWARD CURRENT DERATING CURVE

GS2008HE

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

LEGAL STATEMENT