



GS0504HEWS SERIES

SURFACE GENERAL PURPOSE RECTIFIER

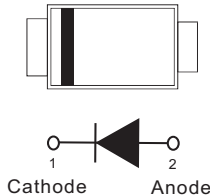
VOLTAGE 400-800 Volts **CURRENT** 0.5 Amperes

FEATURES

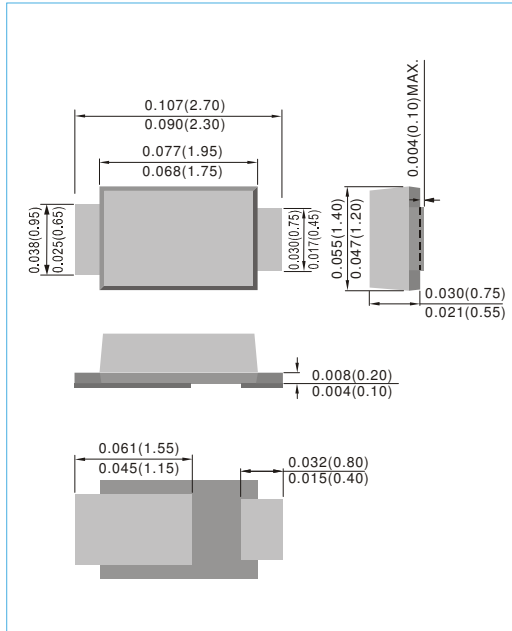
- Fast Surface Mounted Applications
- Low Profile Package
- Ideal for automatic placement
- Glass Passivated Chip Junction
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323HE, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.00065 ounces, 0.0185 grams
- Polarity: Color band denotes cathode end



SOD-323HE Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	GS0504HEWS	GS0506HEWS	GS0508HEWS	UNITS
Marking Code	-	XA	XB	XX	-
Recurrent Peak Reverse Voltage	V_{RRM}	400	600	800	V
RMS Voltage	V_{RMS}	280	420	560	V
DC Blocking Voltage	V_R	400	600	800	V
Average Forward Current	$I_{F(AV)}$	0.5			A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	11			A
Forward Voltage at 0.5A	V_F	1.0			V
DC Reverse Current at Rated DC Blocking Voltage	I_R	1			μA
Typical Junction Capacitance at $V_R=0V$	C_J	9			pF
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Case (Note 1)	$R_{\theta JA}$ $R_{\theta JC}$	95 30			$^{\circ}C / W$
Operating Junction Temperature and Storage Temperature Range	T_J, T_{STG}	-55 to +150			$^{\circ}C$

NOTES:

1. Mounted on 48cm² FR-4 PCB.



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RATING AND CHARACTERISTIC CURVES

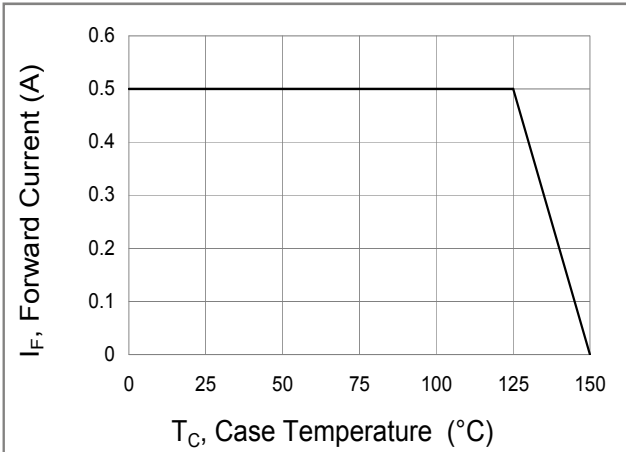


Fig.1 Forward Current Derating Curve

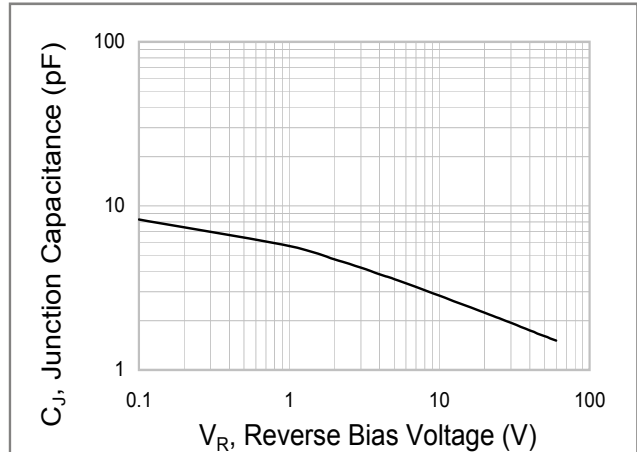


Fig.2 Typical Junction Capacitance

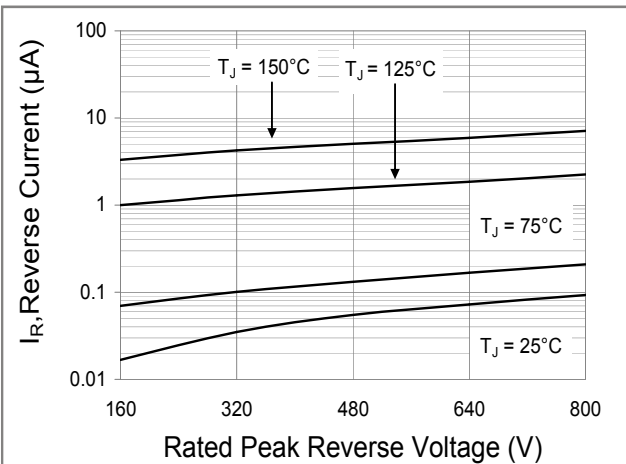


Fig.3 Typical Reverse Characteristics

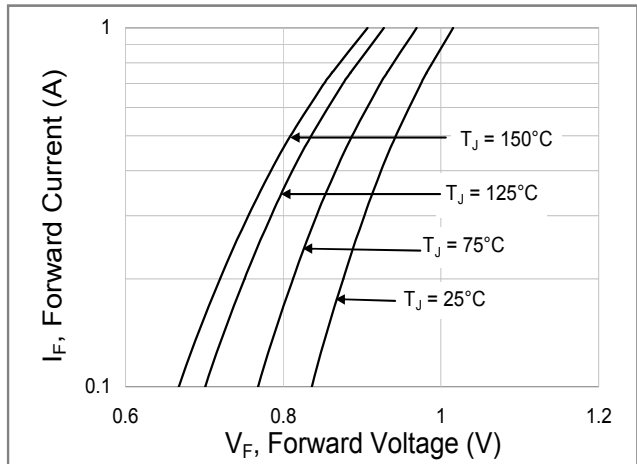
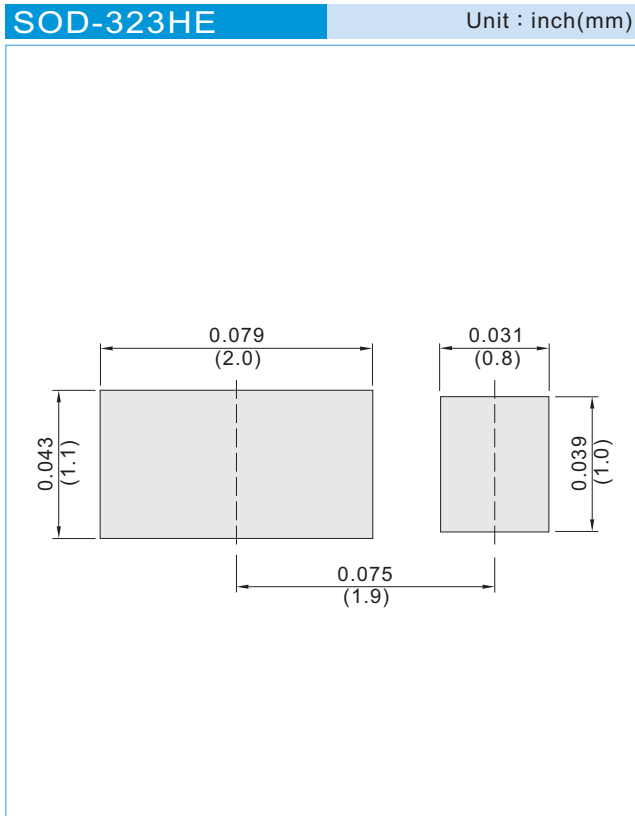


Fig.4 Typical Forward Characteristics



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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