



SURFACE GENERAL PURPOSE RECTIFIERS

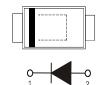
VOLTAGE 600 Volt CURRENT 1 Ampere

FEATURES

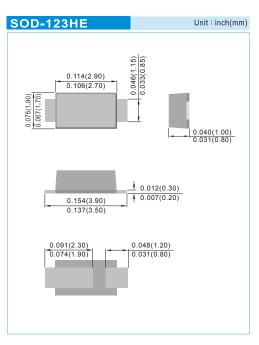
- · For surface mounted applications in order to optimize board space
- · Ideal for automated placement
- \bullet High temperature soldering : 260°C /10 seconds at terminals
- Glass Passivated Chip Junction
- · Acquire quality system certificate: TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-123HE, Molded plastic over passivated junction
- Terminals: 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



Anode



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

PARAMETER	SYMBOL	VALUE	UNITS
Marking Code	-	H1J	-
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	٧
Maximum RMS Voltage	V _{RMS}	420	V
Maximum DC Blocking Voltage	V _R	600	٧
Maximum Average Forward Current	I _{F(AV)}	1	А
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	I _{FSM}	30	А
Maximum Forward Voltage at 1A	V _F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	1	μА
Typical Junction Capacitance at VR=0V	CJ	15	pF
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	$R_{_{ heta JL}}$	170 32	°C / W
Operating Junction Temperature and Storage Temperature Range	T_J,T_STG	-55 to +150	°C

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
- 2. Mounted on a FR4 PCB, single-sided copper, standard footprint





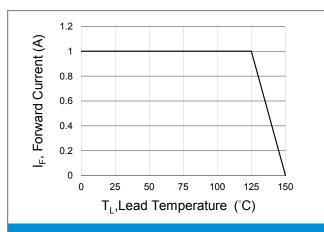


Fig.1 Forward Current Derating Curve

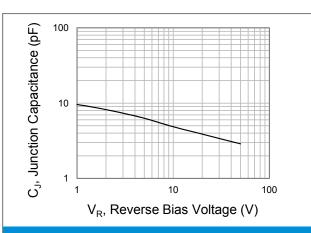


Fig.2 Typical Junction Capacitance

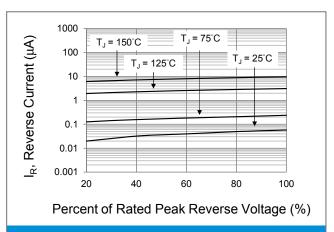


Fig.3 Typical Reverse Characteristics

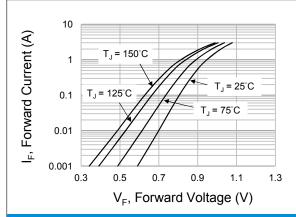
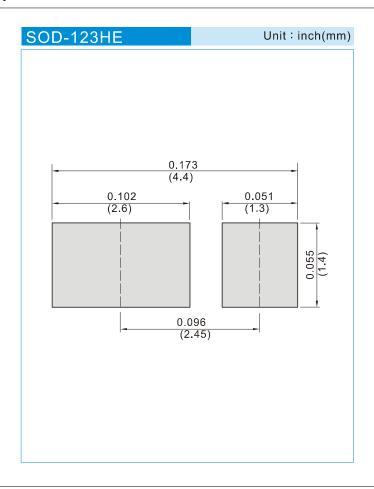


Fig.4 Typical Forward Characteristics





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

GS1006HE-AU_R1_000A1 GS1006HE-AU_R2_000A1

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 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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