



SB1200AH

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 200Volt **CURRENT** 1 Ampere

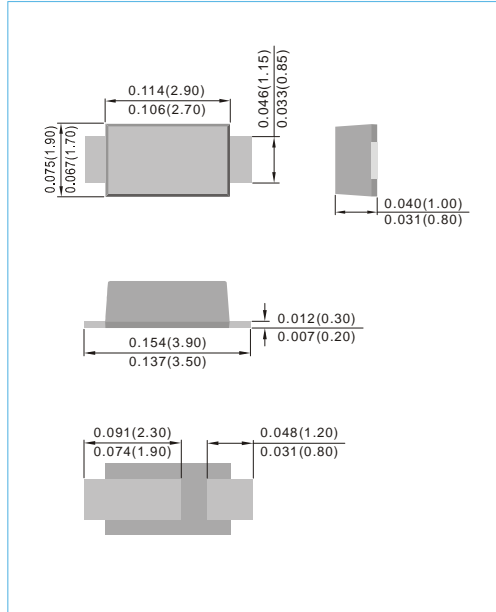
SOD-123HE Unit : inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC.
- High conductor
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-123HE, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0006 ounces, 0.0184 grams
- Polarity: Color band denotes cathode end



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

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	140	V
Maximum DC Blocking Voltage	V _R	200	V
Maximum Average Forward Current	I _O	1	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30	A
Maximum Forward Voltage at 1A	V _F	0.85	V
Maximum DC Reverse Current at 200V (Note 3)	I _R	1.8	μA
Maximum DC Reverse Current at 100V (Note 3)	T _J =25°C	2	μA
	T _J =75°C	2	
	T _J =85°C	6	
Typical Junction Capacitance at V _R =0V, f=1MHz	C _J	85	pF
Typical Thermal Resistance, Junction to Ambient (Note 2) Junction to Case (Note 1)	R _{θJA}	185	°C/W
	R _{θJC}	20	
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, mini pad.
3. Short duration pulse test used to minimize self-heating effect.



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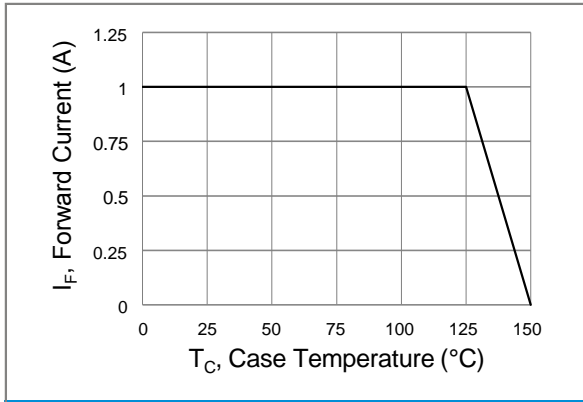


Fig.1 Forward Current Derating Curve

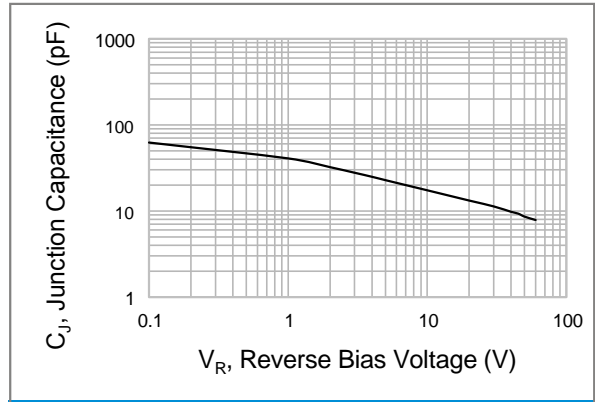


Fig.2 Typical Junction Capacitance

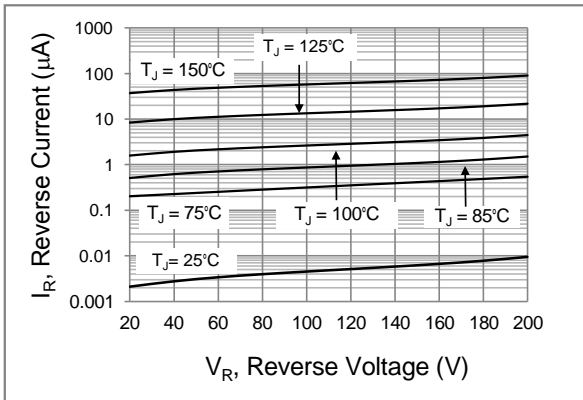


Fig.3 Typical Reverse Characteristics

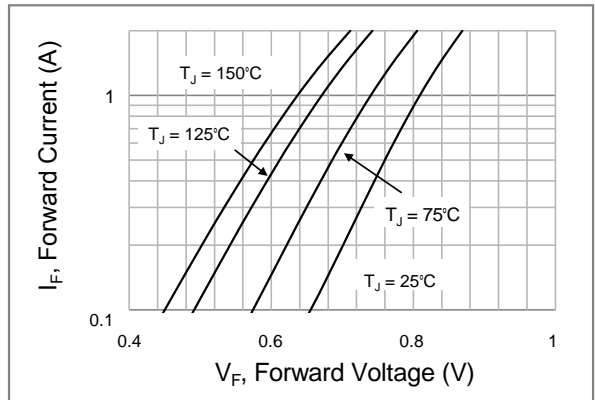


Fig.4 Typical Forward Characteristics

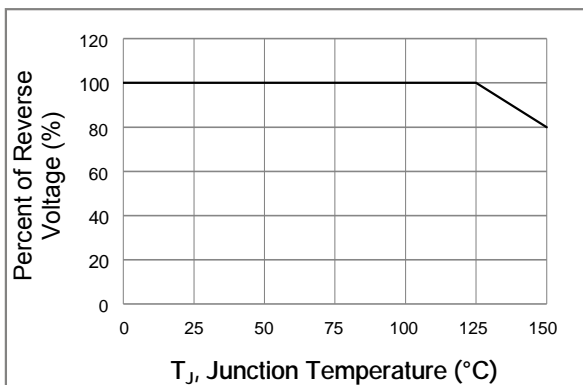


Fig.5 Operating Temperature Derating Curve



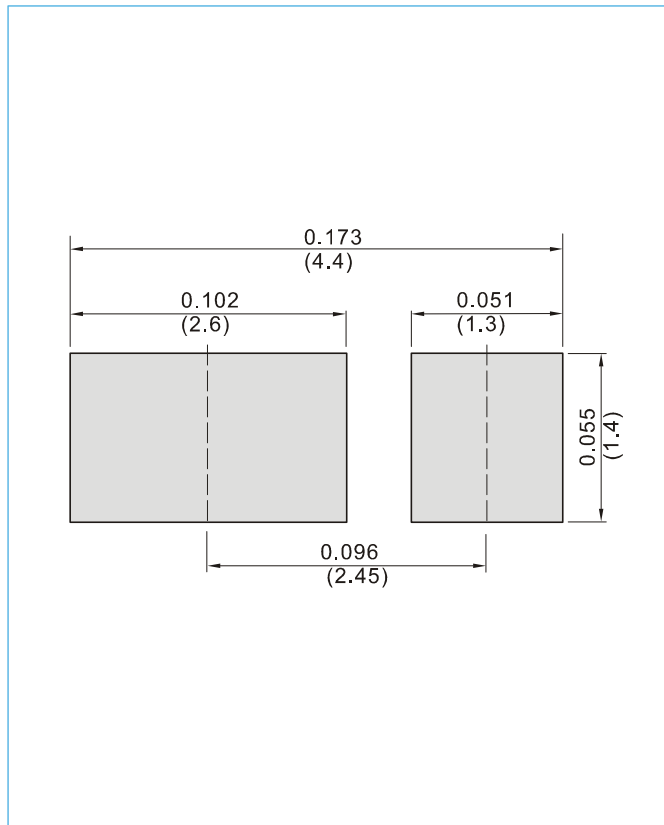
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PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
SB1200AH_R1_00001	SOD-123HE	3K pcs / 7" reel	2AH	Halogen free
SB1200AH_R2_00001	SOD-123HE	10K pcs / 13" reel	2AH	Halogen free

MOUNTING PAD LAYOUT

SOD-123HE Unit : inch(mm)





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