



SS1040HE-AU SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40-150Volt **CURRENT** 1 Ampere

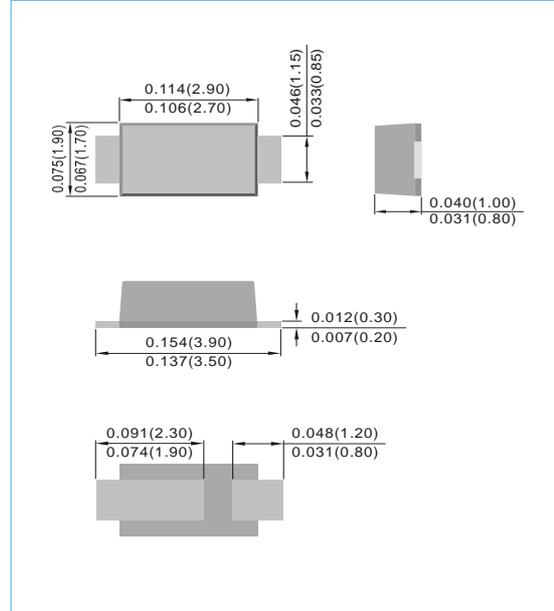
SOD-123HE Unit : inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC.
- High conductor
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/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	SS1040HE-AU	SS10150HE-AU	UNITS
Marking Code		EM	ERL	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	150	V
Maximum RMS Voltage	V _{RMS}	28	105	V
Maximum DC Blocking Voltage	V _R	40	150	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	0.55	0.85	V
Maximum DC Reverse Current	I _R	30		μA
Typical Junction capacitance at V _R =0V, f=1MHz	C _J	155	85	pF
Typical Thermal Resistance, Junction to Ambient (Note 2) Junction to Case (Note 1)	R _{θJA} R _{θJC}	185 20		°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, mini pad.



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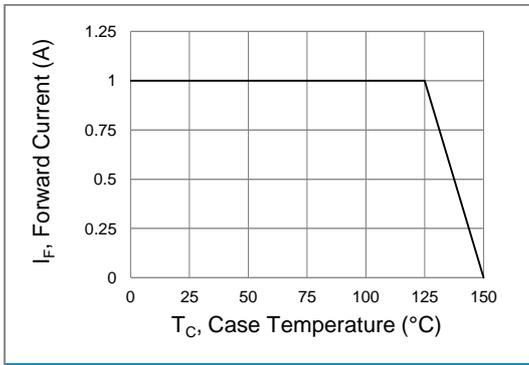


Fig.1 Forward Current Derating Curve

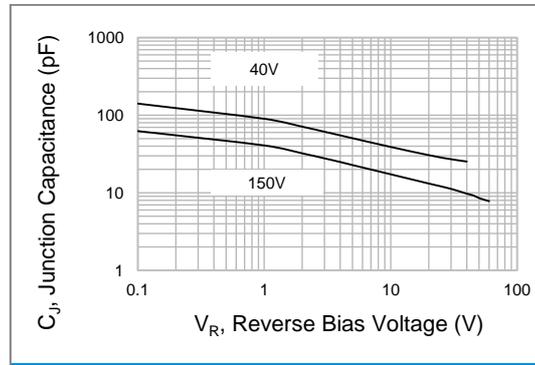


Fig.2 Typical Junction Capacitance

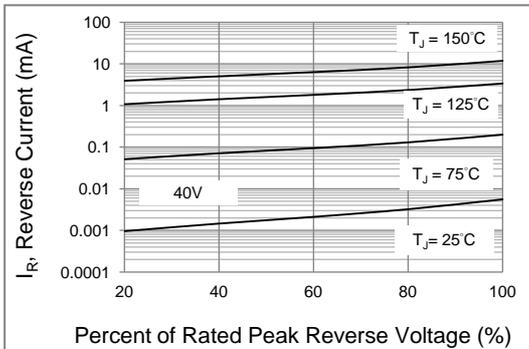


Fig.3 Typical Reverse Characteristics

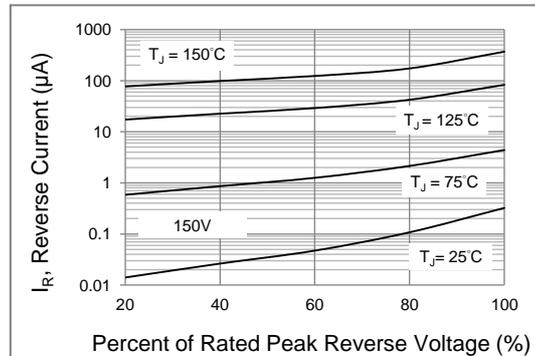


Fig.4 Typical Reverse Characteristics

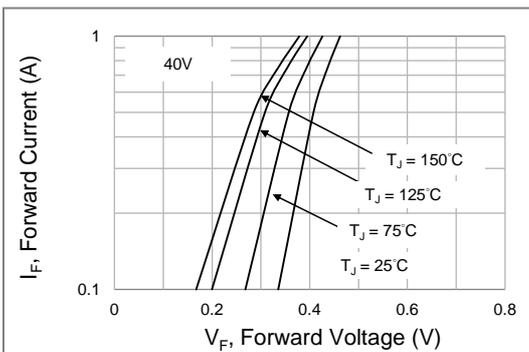


Fig.5 Typical Forward Characteristics

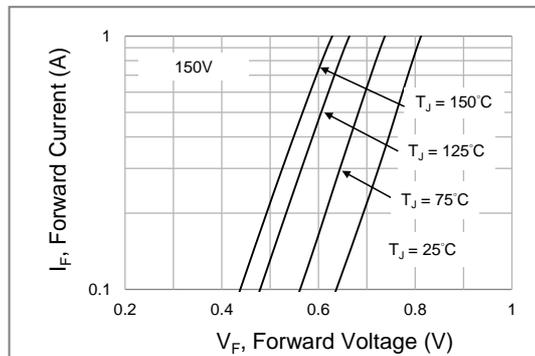


Fig.6 Typical Forward Characteristics

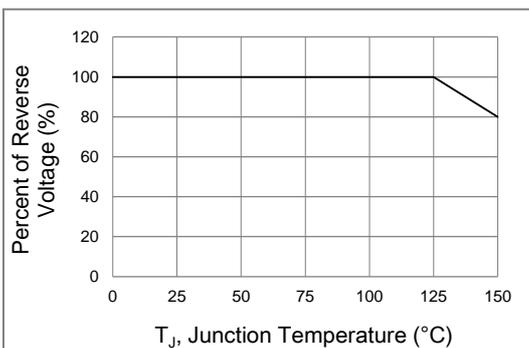


Fig.7 Operating Temperature Derating Curve

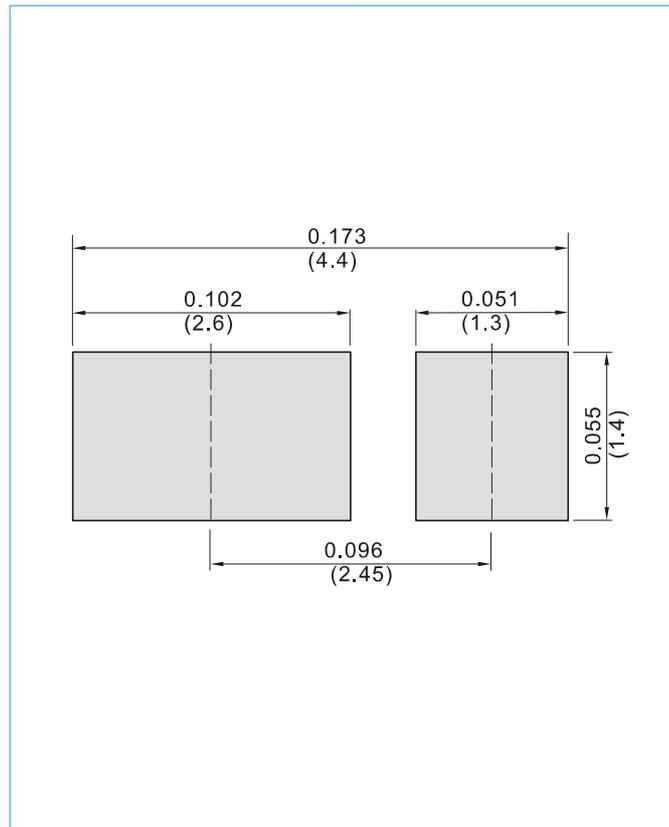


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MOUNTING PAD LAYOUT

SOD-123HE

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 10K per 13" plastic Reel
T/R - 3K per 7" plastic Reel



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Part No_packing code_Version

SS1040HE-AU_R1_000A1

SS1040HE-AU_R2_000A1

For example :

RB500V-40_R2_00001



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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