

SS2040HE

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volts **CURRENT** 2 Amperes

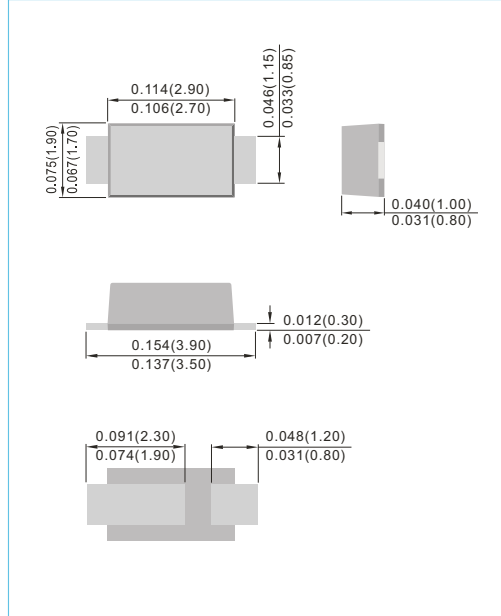
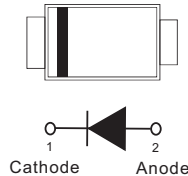
SOD-123HE Unit : inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC.
- High conductor
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SOD-123HE, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.00015 ounces, 0.00424 grams
- Polarity: Color band denotes cathode end
- Marking: EY



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V _R	40	V
Peak Reverse Voltage	V _{RRM}	40	V
Average Rectified Current at Temp=75°C	I _O	2	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	50	A
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Case (Note 1)	R _{θJA} R _{θJC}	225 20	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

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

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V _(BR)	I _R =1mA	40	--	--	V
Reverse Current	I _R	V _R =40 V	--	--	100	μA
Forward Voltage	V _F	I _F =2.0A	--	0.5	0.55	V
Typical Junction Capacitance	C _J	V _R =0V, f=1.0MHz	--	300	--	pF

NOTES:

1. Mounted on 50cm² FR-4 PCB board.

SS2040HE

RATING AND CHARACTERISTIC CURVES

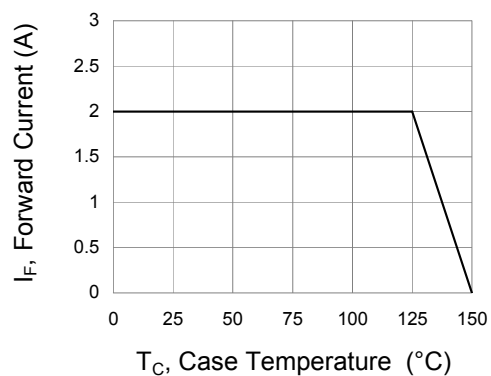


Fig.1 Forward Current Derating Curve

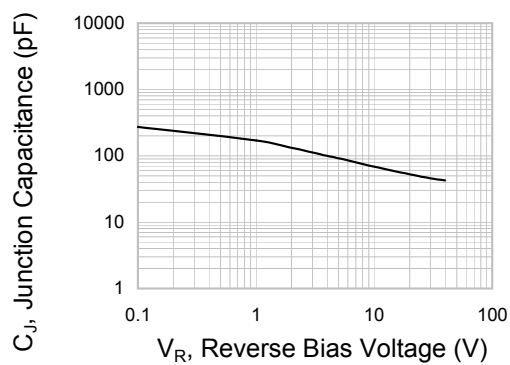


Fig.2 Typical Junction Capacitance

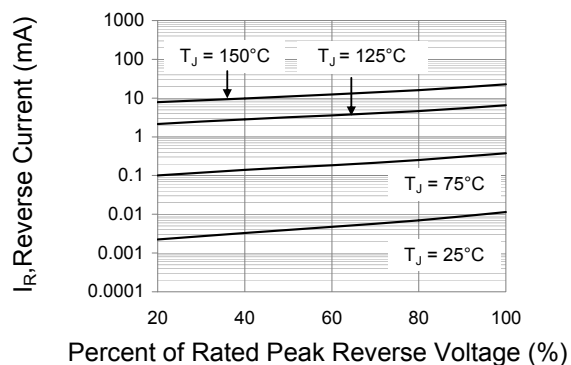


Fig.3 Typical Reverse Characteristics

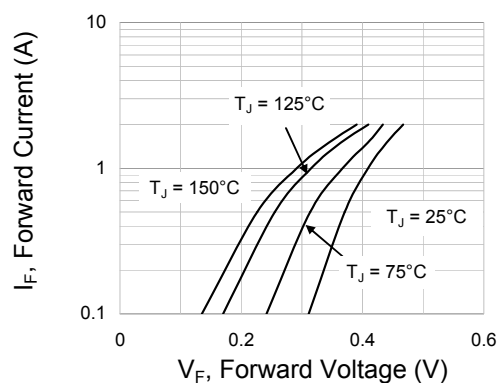


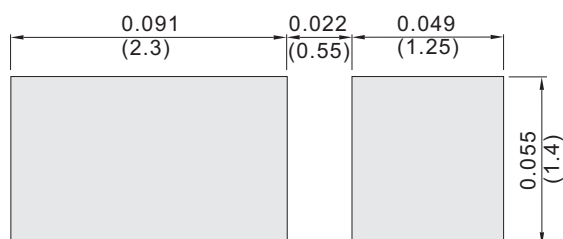
Fig.4 Typical Forward Characteristics

SS2040HE

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

Copyright PanJit International, Inc 2011

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.