

SS1040HEWS

SCHOTTKY BARRIER DIODE

FEATURES

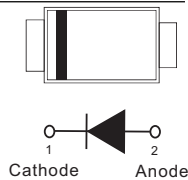
- SOD-323HE low profile package
- Low forward voltage drop, low reverse current
- High Efficiency
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case:SOD-323HE,Plastic
- Terminals: Solderable per MIL-STD-750,Method 2026
- Apporx. Weight:0.0006 ounces, 0.0185 grams
- Marking : EV

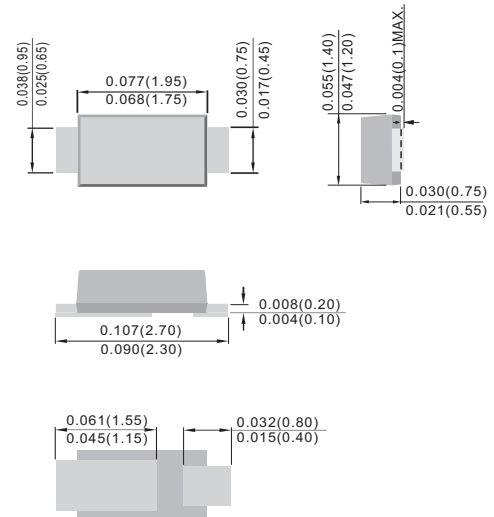
APPLICATIONS

- Low voltage high frequency inverters
- DC/DC converters
- Polarity protection
- Freewheeling



SOD-323HE

Unit : inch(mm)



ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER	SYMBOL	LIMITS	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Maximum Average Rectified Forward Current	I _O	1.0	A
Peak Forward Surge Current (Half Sine Wave , 1 cycle , non-repetitive)	I _{FSM}	22	A
Operating Junction Temperature Range	T _{JW}	-40 to +150	°C
Storage Temperature Range	T _{STG}	-40 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _{F1}	I _F =0.7A	-	0.48	-	V
	V _{F2}	I _F =1.0A	-	0.53	0.58	V
Reverse Current	I _{R1}	V _R =5V	-	0.5	-	μA
	I _{R2}	V _R =40V	-	-	100	μA
Thermal Resistance (Note)	R _{θJA}	Junction to Ambient	-	-	220	°C/W
	R _{θJL}	Junction to Lead	-	-	50	°C/W

Note : Mounted on P.C Board with (15mmx50mm) copper pad areas.

SS1040HEWS

RATING AND CHARACTERISTIC CURVES

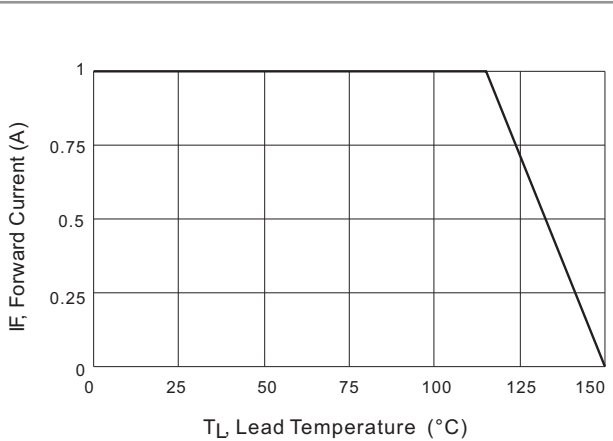


Fig.1 Forward Current Derating Curve

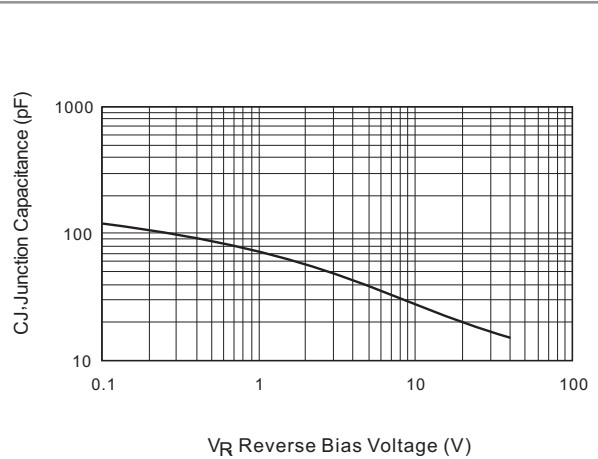


Fig.2 Typical Junction Capacitance

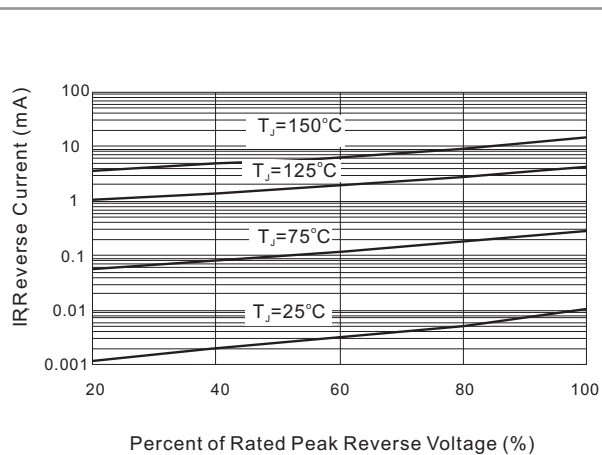


Fig.3 Typical Reverse Characteristics

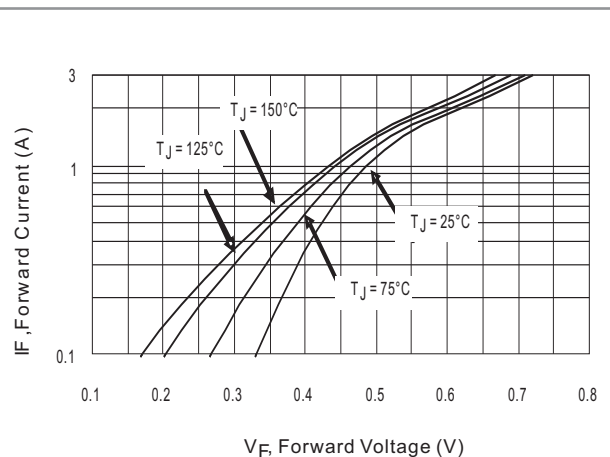
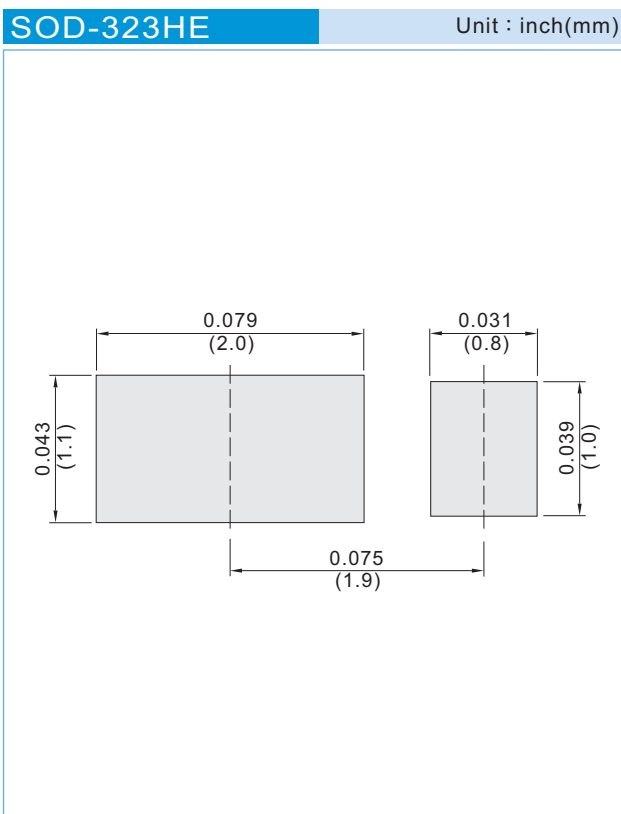


Fig.4 Typical Forward Characteristics

SS1040HEWS

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

Copyright PanJit International, Inc 2012

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.