



SS1040HEWS

SCHOTTKY BARRIER DIODE

FEATURES

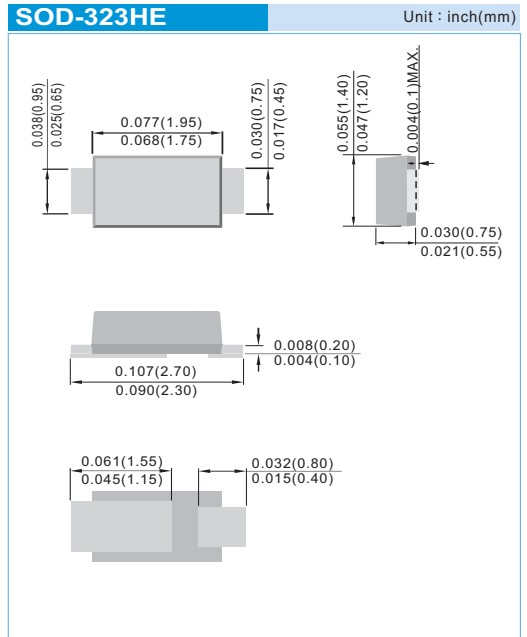
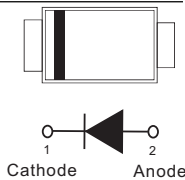
- SOD-323HE low profile package
- Low forward voltage drop, low reverse current
- High Efficiency
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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



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.



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RATING AND CHARACTERISTIC CURVES

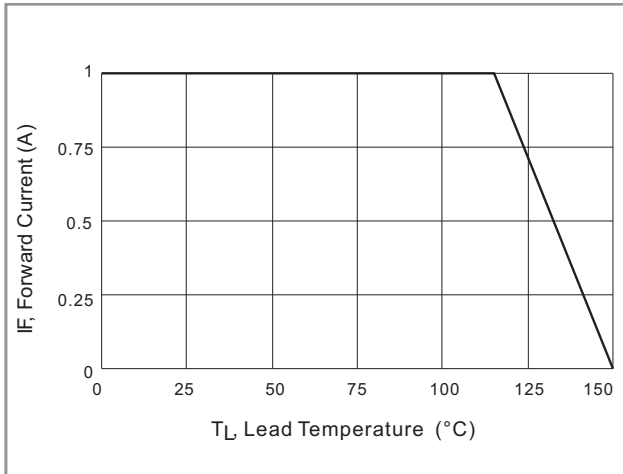


Fig.1 Forward Current Derating Curve

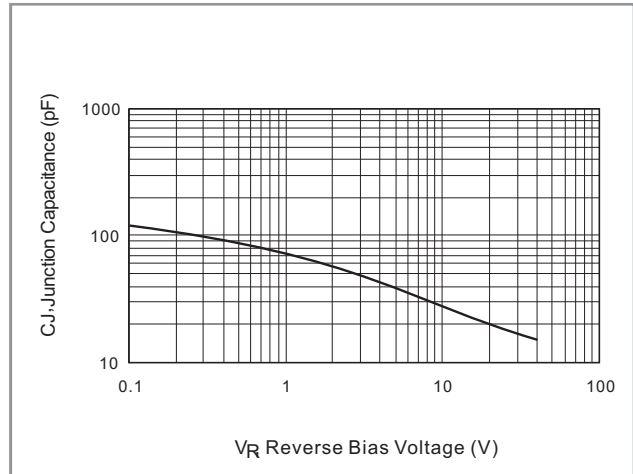


Fig.2 Typical Junction Capacitance

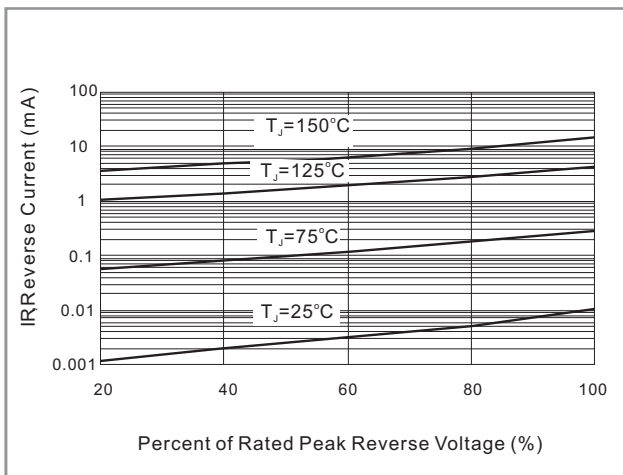


Fig.3 Typical Reverse Characteristics

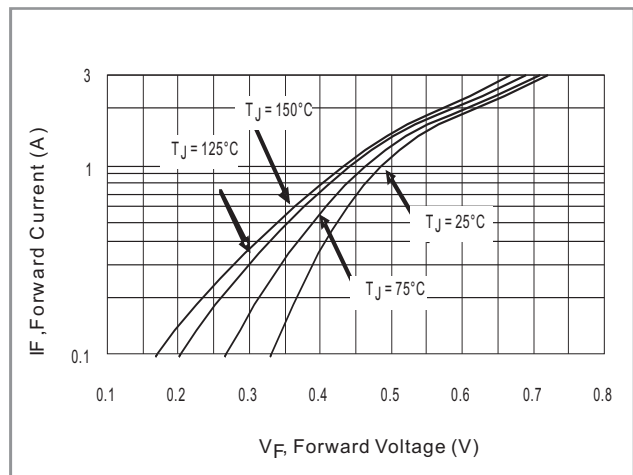
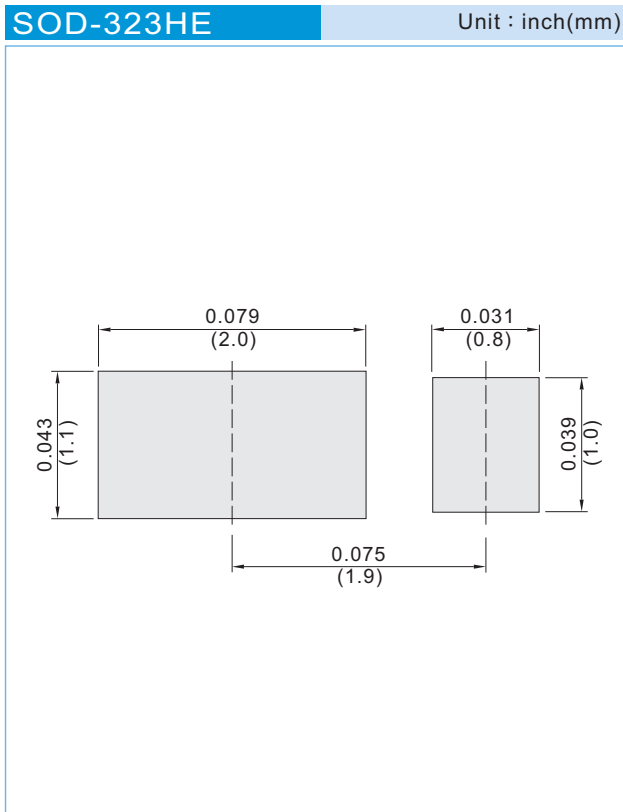


Fig.4 Typical Forward Characteristics



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

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