

SS1040HEWS

SCHOTTKY BARRIER DIODE

FEATURES

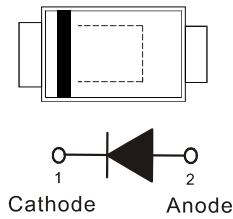
- SOD-323HE low profile package
- Low forward voltage drop, low reverse current
- High Efficiency
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323HE, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.0002 ounces, 0.005 grams
- Marking: EV

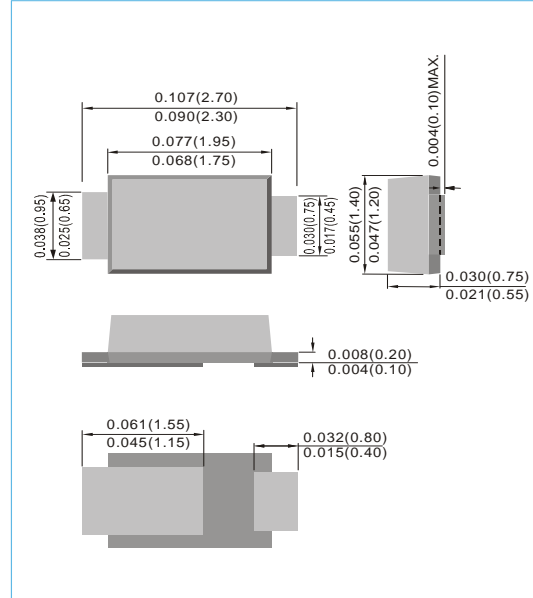
APPLICATIONS

- DC/DC converters



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
Typical Thermal Resistance (Note1) (Note2)	R _{θJA}	Junction to Ambient	-	-	220 250	°C/W
Typical Thermal Resistance (Note1)	R _{θJL}	Junction to Lead	-	-	50	°C/W

Note : 1. Mounted on P.C Board with (15mm x 50mm) copper pad areas.

2. Mounted on a FR4 PCB, single-sided copper, mini pad.

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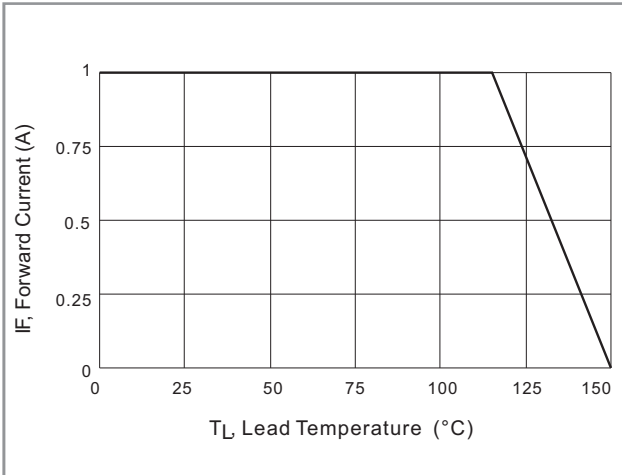


Fig.1 Forward Current Derating Curve

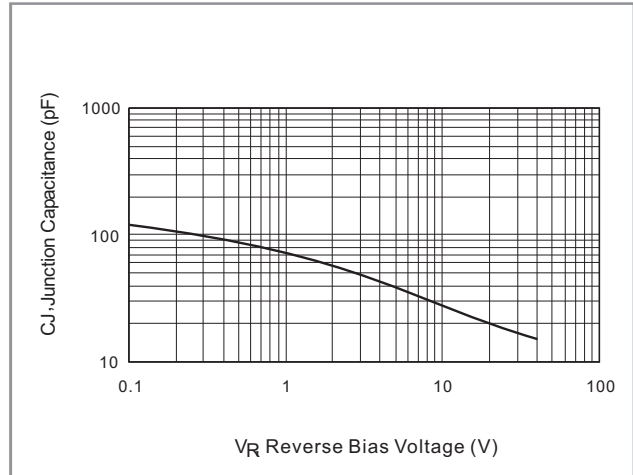


Fig.2 Typical Junction Capacitance

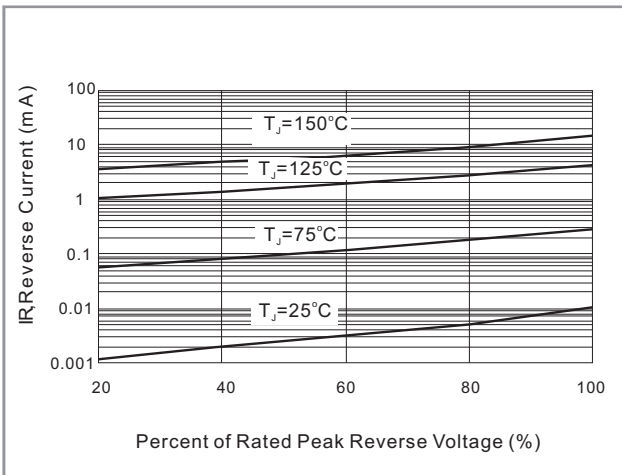


Fig.3 Typical Reverse Characteristics

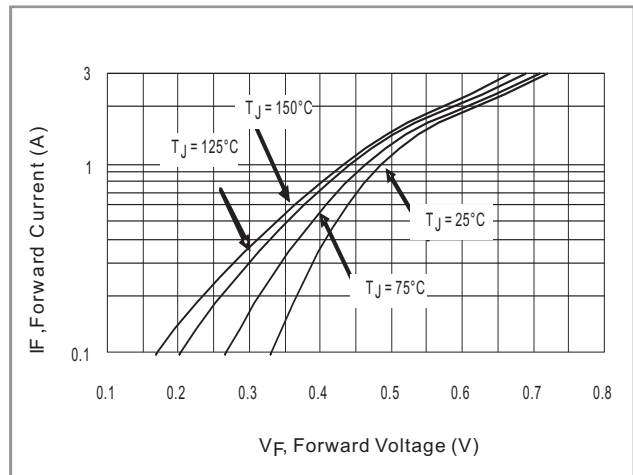


Fig.4 Typical Forward Characteristics

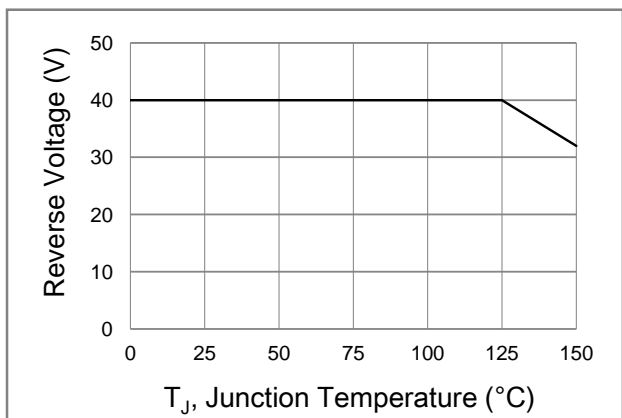
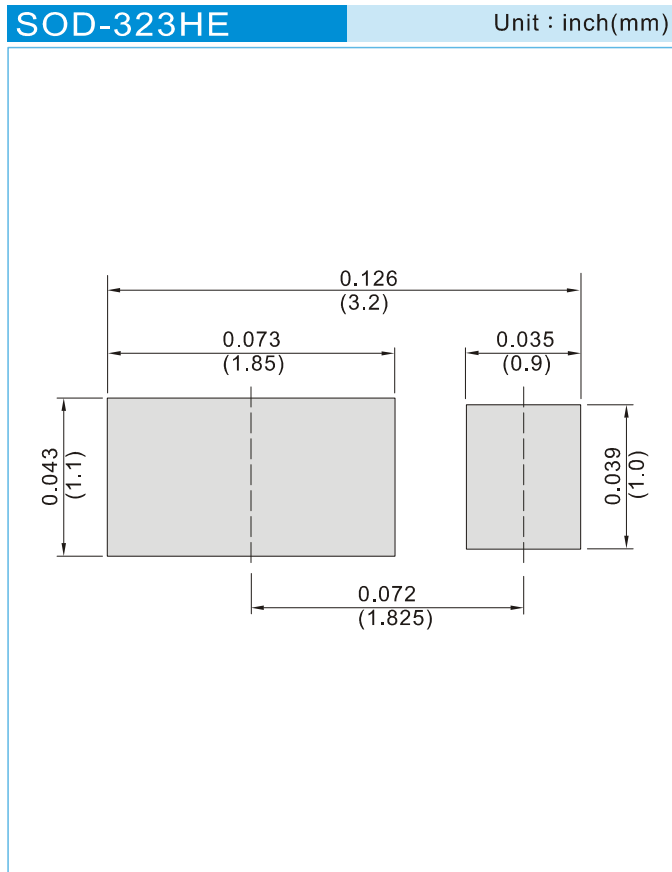


Fig.5 Operating Temperature Derating Curve

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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

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