SS1040HEWS

SCHOTTKY BARRIER DIODE

FEATURES

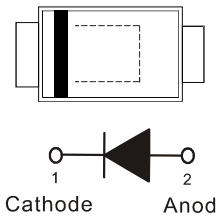
- SOD-323HE low profile package
- Low forward voltage drop, low reverse current
- High Efficiency
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

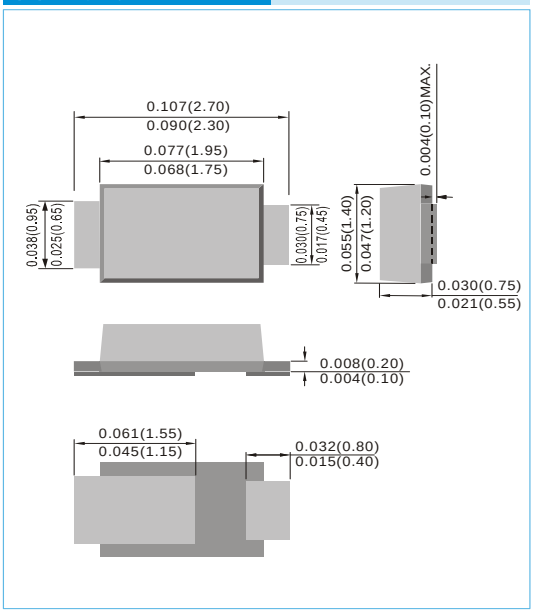
- Case: SOD-323HE,Plastic
- Terminals: Solderable per MIL-STD-750,Method 2026
- Approx weight: 0.0002 ounces, 0.005 grams
- Marking: EV

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 Junciton 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)	$R_{\theta JA}$	Junction to Ambient	- -	- -	220 250	°C/W
Typical Thermal Resistance (Note1)	$R_{\theta JL}$	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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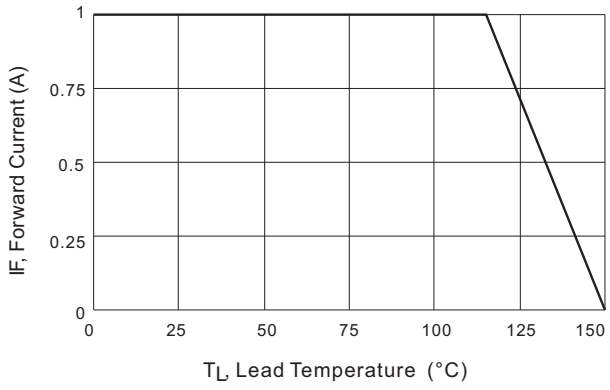


Fig.1 Forward Current Derating Curve

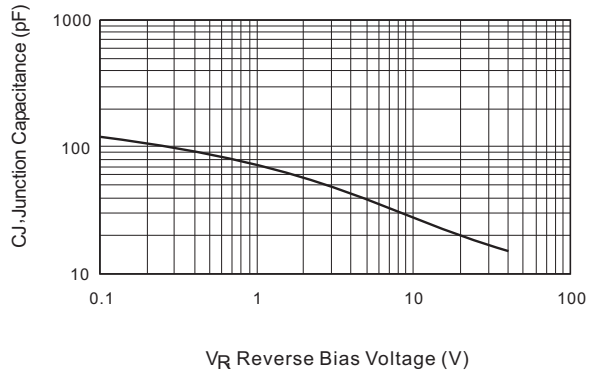


Fig.2 Typical Junction Capacitance

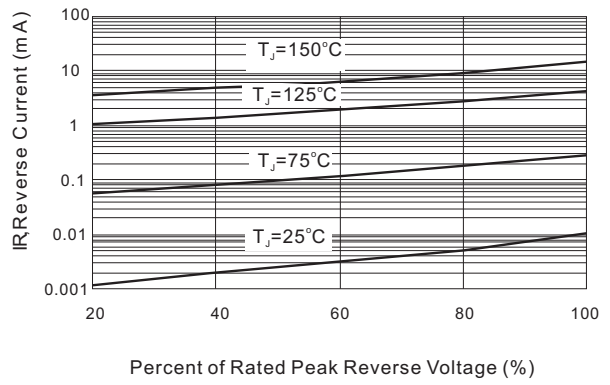


Fig.3 Typical Reverse Characteristics

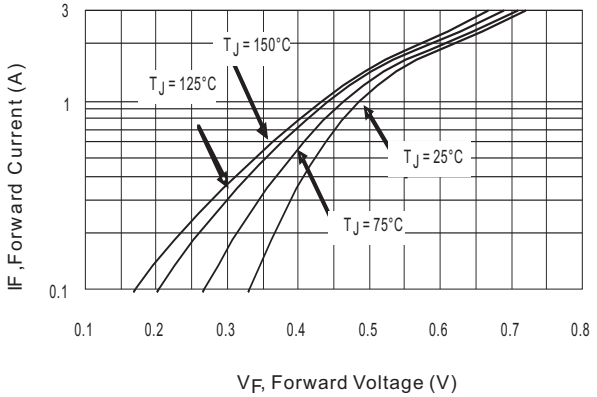


Fig.4 Typical Forward Characteristics

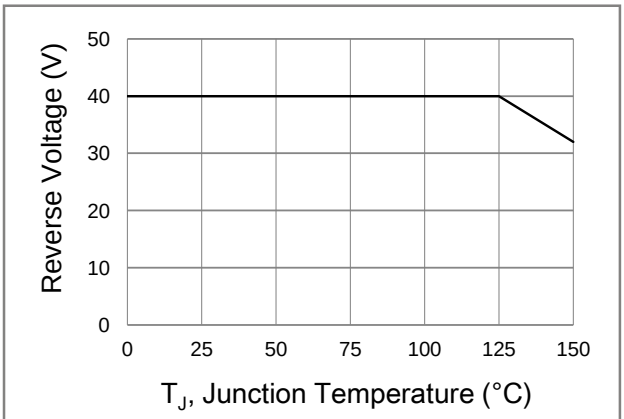
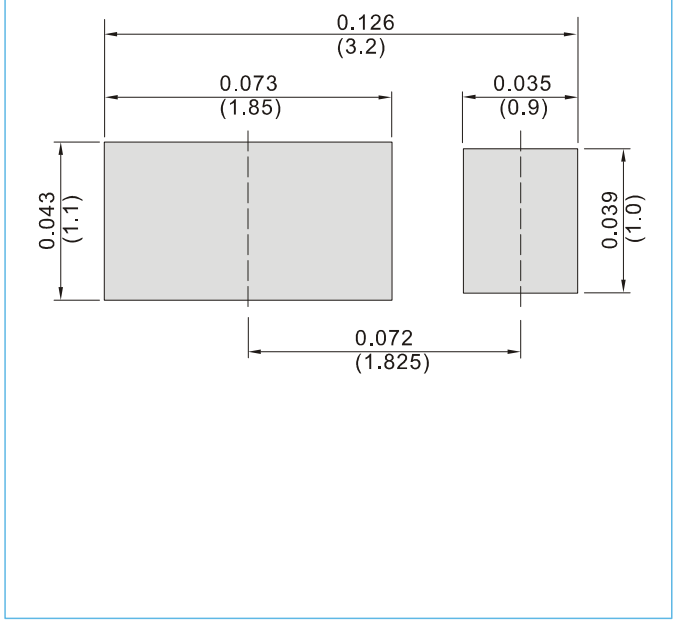


Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT

SOD-323HE Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

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Part No_packing code_Version

SS1040HEWS_R1_00001

SS1040HEWS_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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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