SS1060VHEWS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

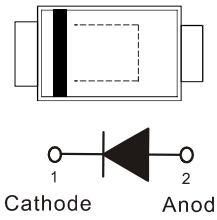
VOLTAGE	60 Volt	CURRENT	1 Ampere

FEATURES

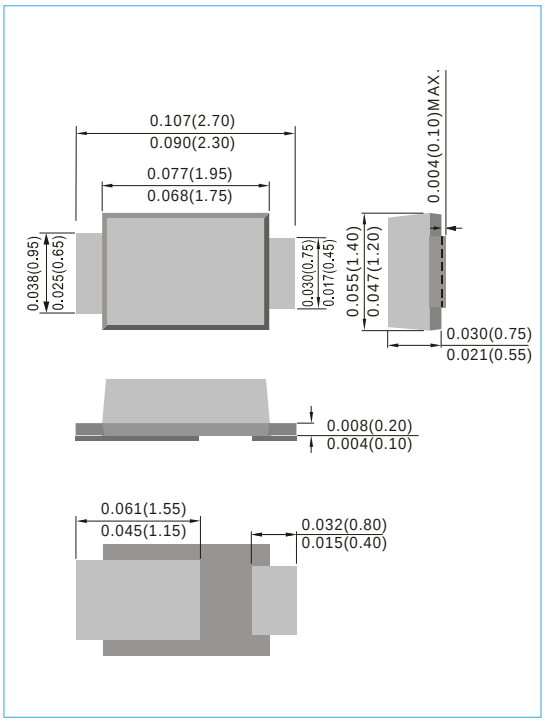
- SOD-323HE low profile package
- Low forward voltage drop, low reverse current
- High Efficiency
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323HE, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 0.0002 ounces, 0.005 grams
- Marking: E6



SOD-323HE Unit : inch(mm)



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

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_R	60	V
Maximum Average Forward Current	I_O	1	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load	I_{FSM}	22	A
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	$R_{\theta JA}$ $R_{\theta JL}$	135 19	°C/W
Operating Junction Temperature and Storage Temperature Range	T_J,T_{STG}	-55 to +150	°C

NOTES:

1.Mounted on 1cm^2 pad layout.

2.Mounted on 50cm^2 copper pad area.

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I_R=100μA	T_A=25°C	60	-	-	V
Instantaneous forward voltage	V_F	I_F=0.1A I_F=0.7A I_F=1.0A	T_A=25°C	- - -	0.34 0.49 0.55	0.45 0.58 0.60	V
		I_F=0.1A I_F=0.7A I_F=1.0A	T_A=125°C	- - -	0.21 0.45 0.53	- - -	V
Reverse current	I_R	V_R=48V	T_A=25°C	-	5.1	-	μA
		V_R=60V	T_A=25°C T_A=125°C	- -	- 10	100 -	μA mA
Typical Junction capacitance	C_J	V_R=0V , f=1MHz		-	136	-	pF

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RATING AND CHARACTERISTIC CURVES

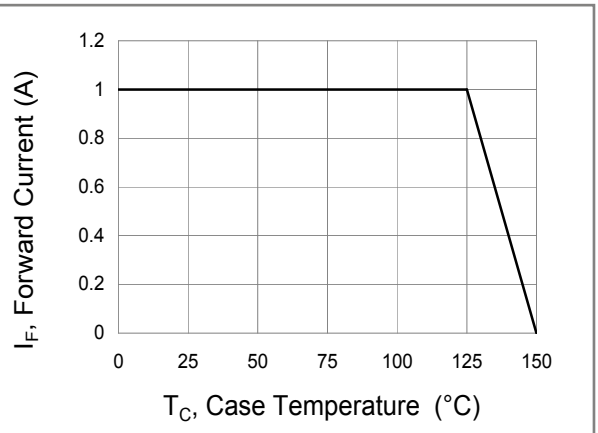

Fig.1 Forward Current Derating Curve

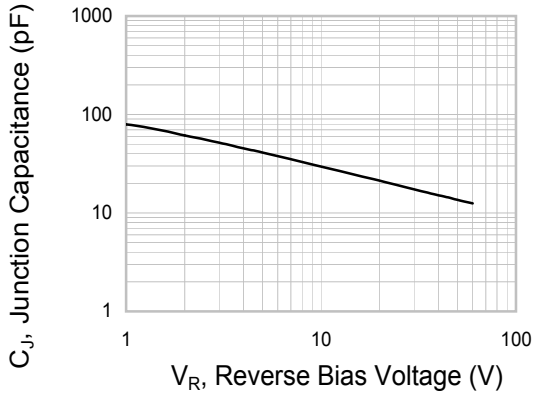

Fig.2 Typical Junction Capacitance

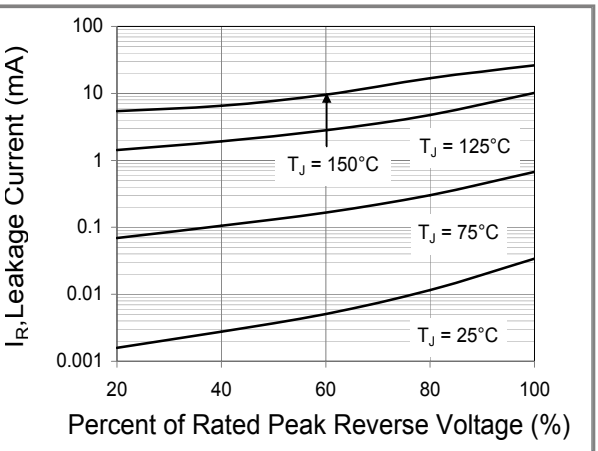

Fig.3 Typical Reverse Characteristics

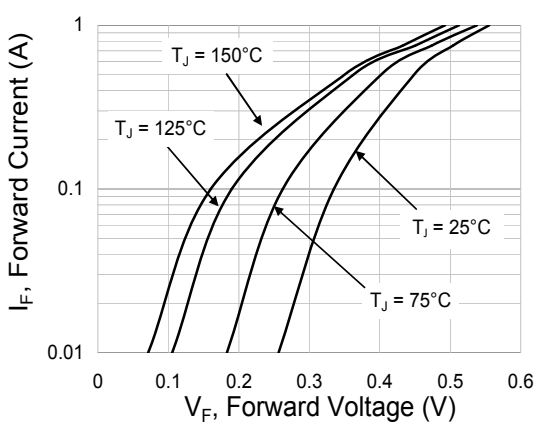

Fig.4 Typical Forward Characteristics

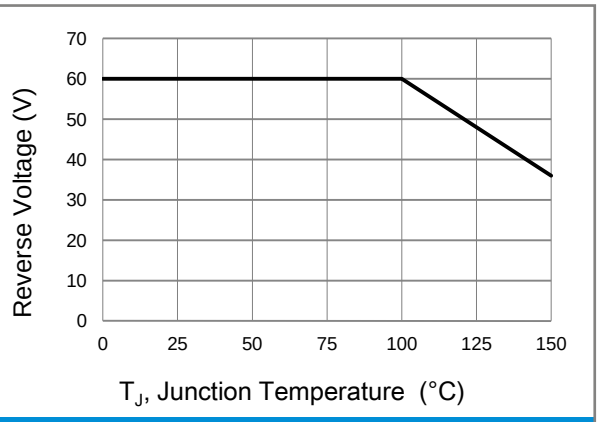

Fig.5 Operating Temperature Derating Curve

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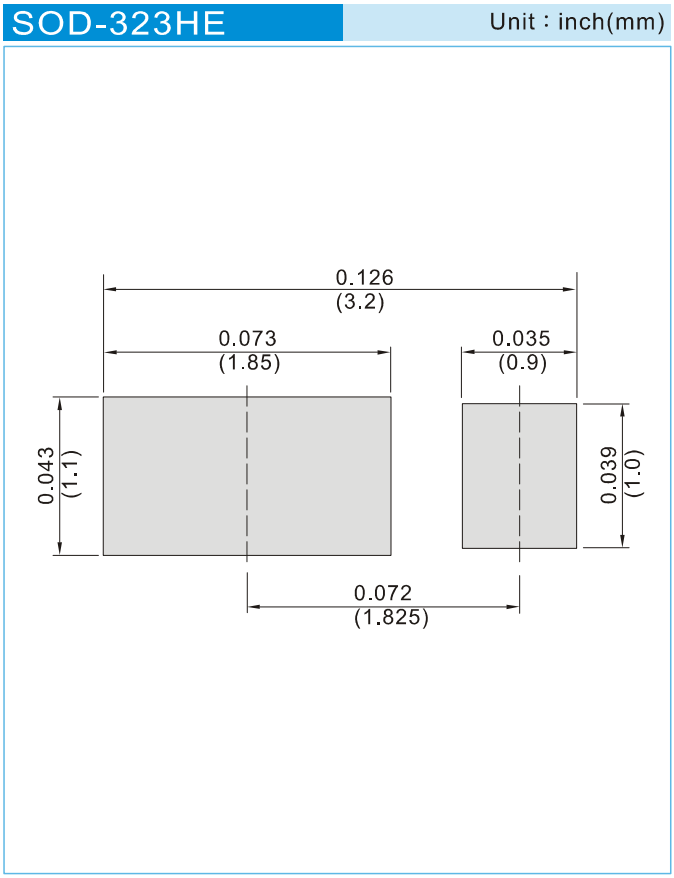
MOUNTING PAD LAYOUT

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

SS1060VHEWS_R1_00001

SS1060VHEWS_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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