



# SS1060VHEWS

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 60 Volt **CURRENT** 1 Ampere

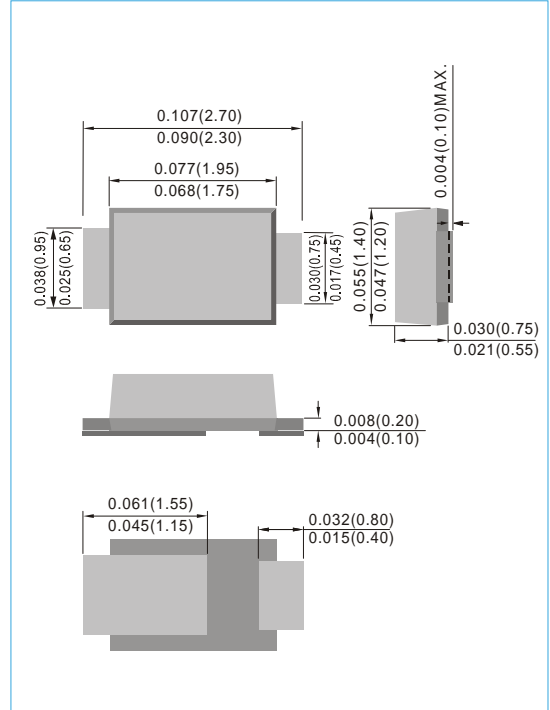
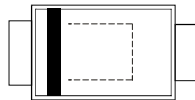
**SOD-323HE** Unit : inch(mm)

### 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



### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	42	V
Maximum DC Blocking Voltage	V <sub>R</sub>	60	V
Maximum Average Forward Current	I <sub>O</sub>	1	A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	22	A
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	R <sub>θJA</sub> R <sub>θJL</sub>	135 19	°C/W
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

### NOTES:

1. Mounted on 1cm<sup>2</sup> pad layout.
2. Mounted on 50cm<sup>2</sup> copper pad area.



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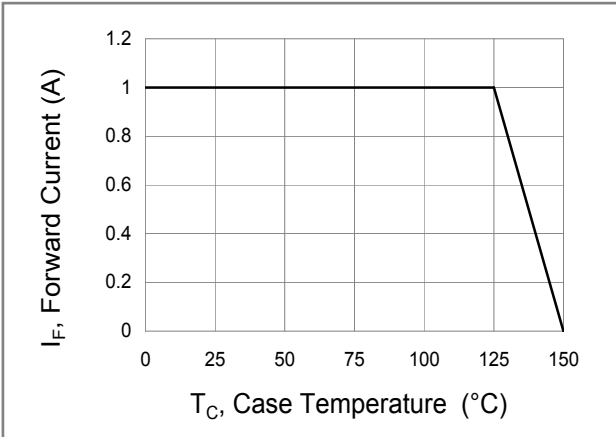
## ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

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

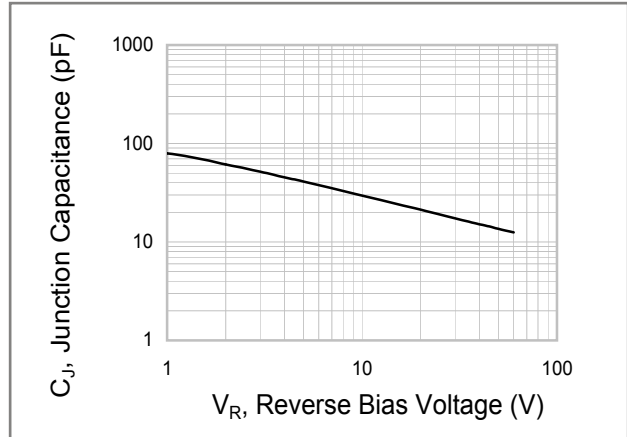


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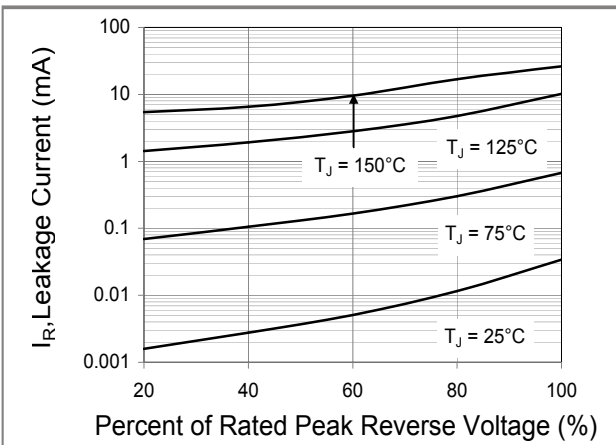
## RATING AND CHARACTERISTIC CURVES



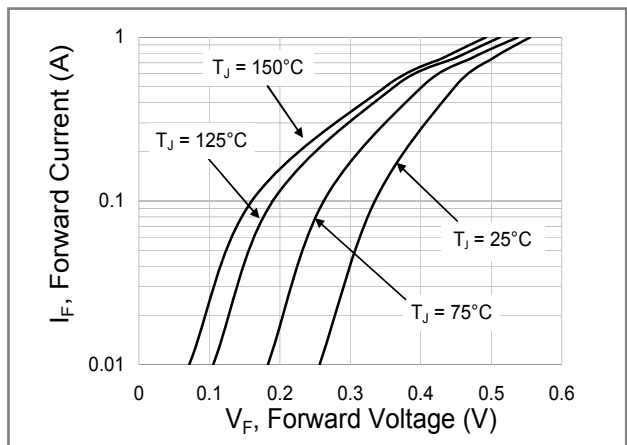
**Fig.1 Forward Current Derating Curve**



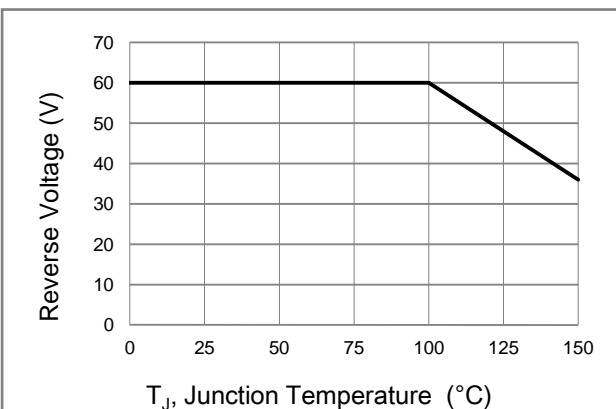
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



**Fig.5 Operating Temperature Derating Curve**

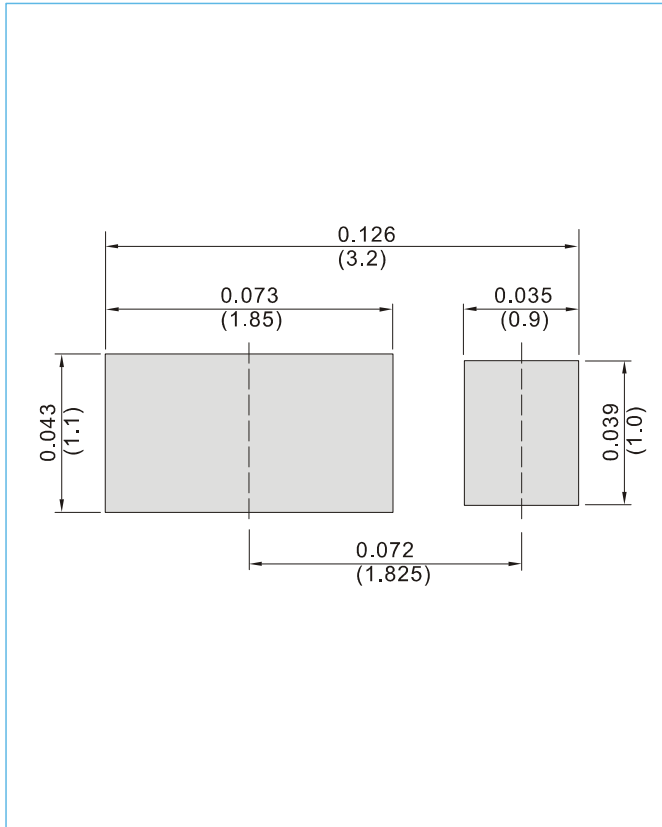


# SS1060VHEWS

## 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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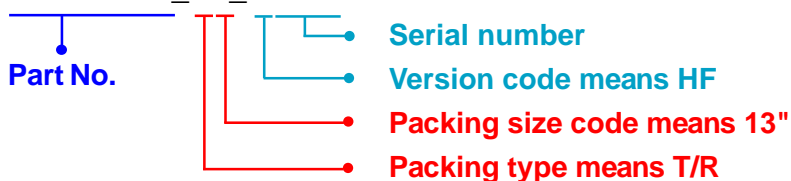
## Part No\_packing code\_Version

SS1060VHEWS\_R1\_00001

SS1060VHEWS\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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