



SS1060VHEWS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 60 Volt **CURRENT** 1 Ampere

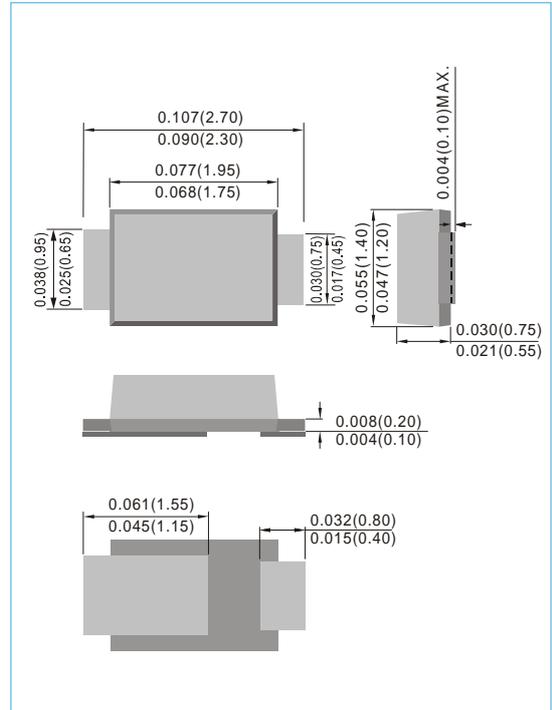
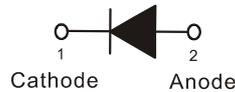
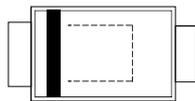
SOD-323HE Unit : inch(mm)

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_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 _{θJA} R _{θJL}	135 19	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

NOTES:

1. Mounted on 1cm² pad layout.
2. Mounted on 50cm² 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
		$I_F=0.7\text{A}$	-	0.49	0.58	
		$I_F=1.0\text{A}$	-	0.55	0.60	
		$I_F=0.1\text{A}$ $T_A=125^\circ\text{C}$	-	0.21	-	V
$I_F=0.7\text{A}$	-	0.45	-			
$I_F=1.0\text{A}$	-	0.53	-			
Reverse current	I_R	$V_R=48\text{V}$ $T_A=25^\circ\text{C}$	-	5.1	-	μA
		$V_R=60\text{V}$ $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	-	- 10	100 -	μA 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

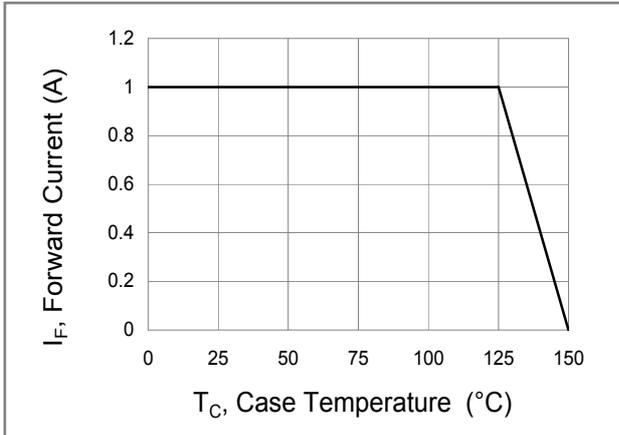


Fig.1 Forward Current Derating Curve

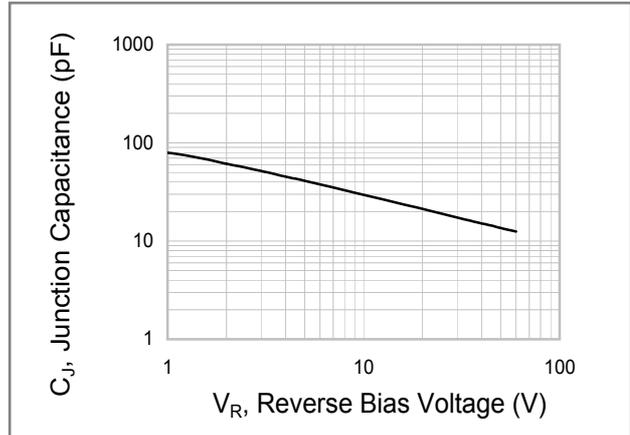


Fig.2 Typical Junction Capacitance

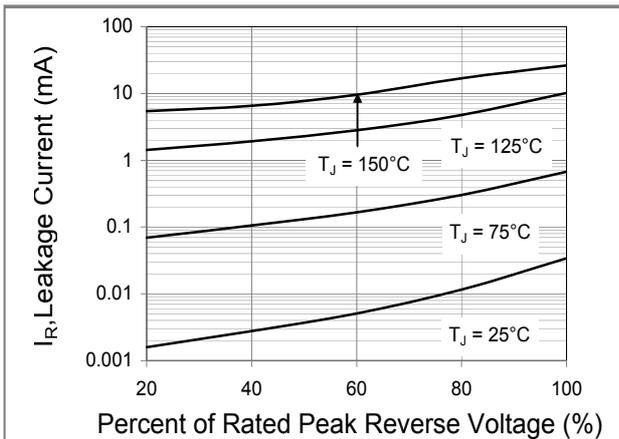


Fig.3 Typical Reverse Characteristics

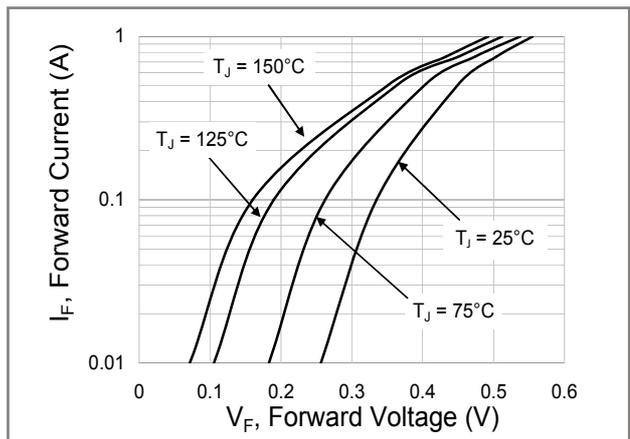


Fig.4 Typical Forward Characteristics

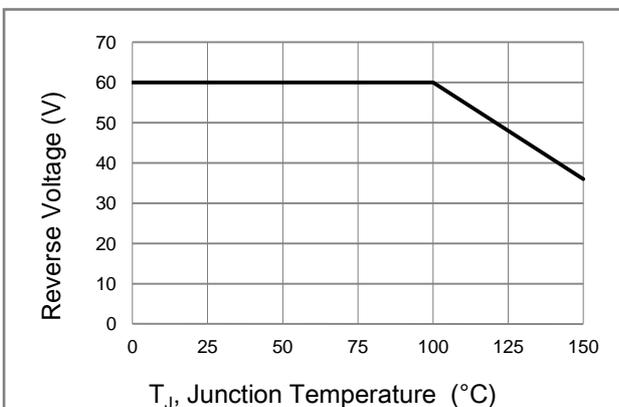


Fig.5 Operating Temperature Derating Curve

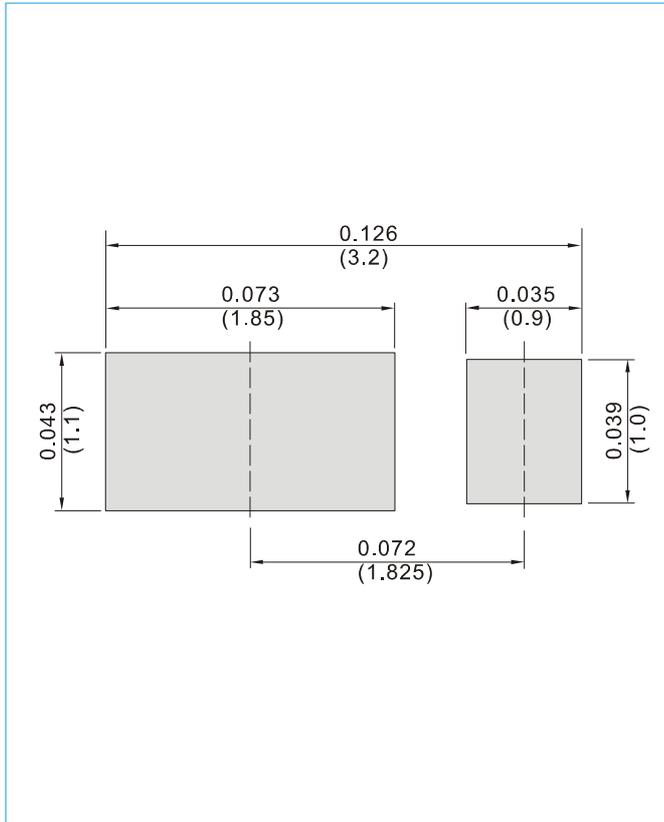


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MOUNTING PAD LAYOUT

SOD-323HE

Unit : inch(mm)



ORDER INFORMATION

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



SS1060VHEWS

Part No_packing code_Version

SS1060VHEWS_R1_00001

SS1060VHEWS_R2_00001

For example :

RB500V-40_R2_00001



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