



SS1060VHEWS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 60 Volts **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 comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

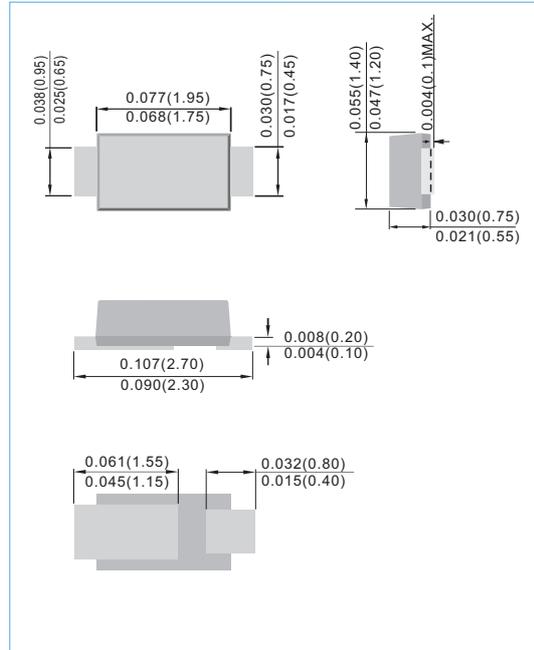
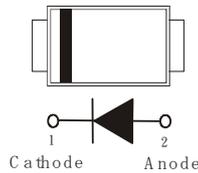
MECHANICAL DATA

Case : SOD-323HE, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight: 0.0007 ounces, 0.0185 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(JEDEC method)	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
		$I_F=0.7\text{A}$ $T_A=25^\circ\text{C}$	-	0.49	0.58	V
		$I_F=1.0\text{A}$ $T_A=25^\circ\text{C}$	-	0.55	0.60	V
		$I_F=0.1\text{A}$ $T_A=125^\circ\text{C}$	-	0.21	-	V
Reverse current	I_R	$V_R=48\text{V}$ $T_A=25^\circ\text{C}$	-	5.1	-	μA
		$V_R=60\text{V}$ $T_A=25^\circ\text{C}$	-	-	100	μA
		$V_R=60\text{V}$ $T_A=125^\circ\text{C}$	-	10	-	mA
Typical Junction capacitance	C_J	$V_R=0\text{V}$, $f=1\text{MHz}$	-	136	-	pF

RATING AND CHARACTERISTIC CURVES

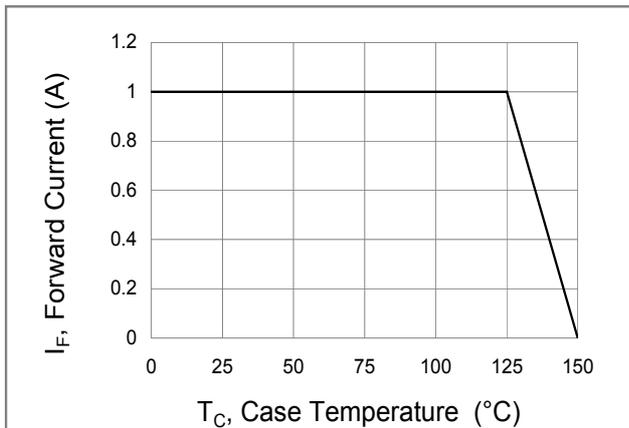


Fig.1 Forward Current Derating Curve

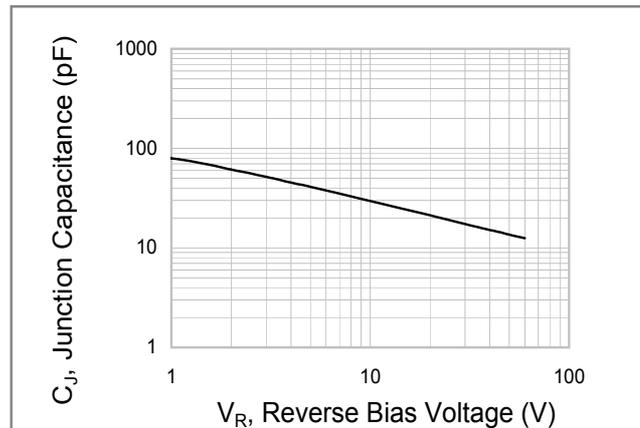


Fig.2 Typical Junction Capacitance

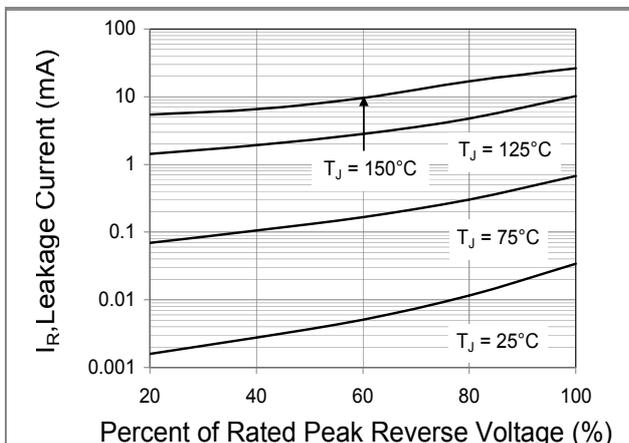


Fig.3 Typical Reverse Characteristics

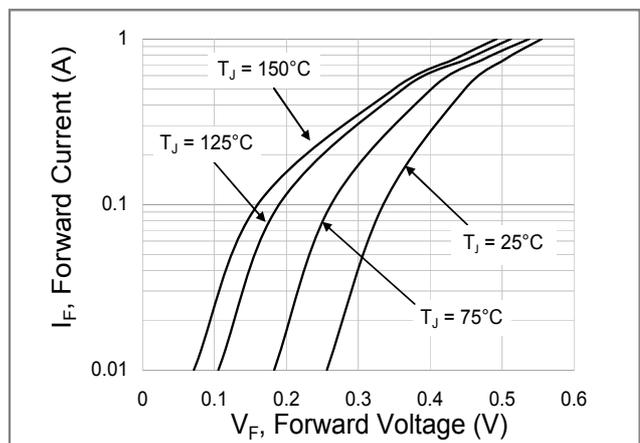
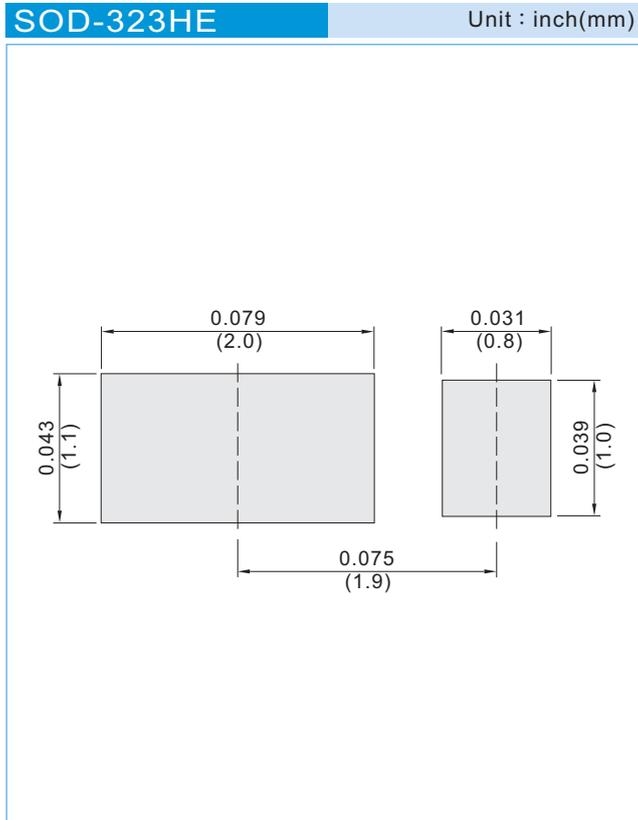


Fig.4 Typical Forward Characteristics



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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



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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