

SS1060VHEWS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 60 Volt **CURRENT** 1 Ampere

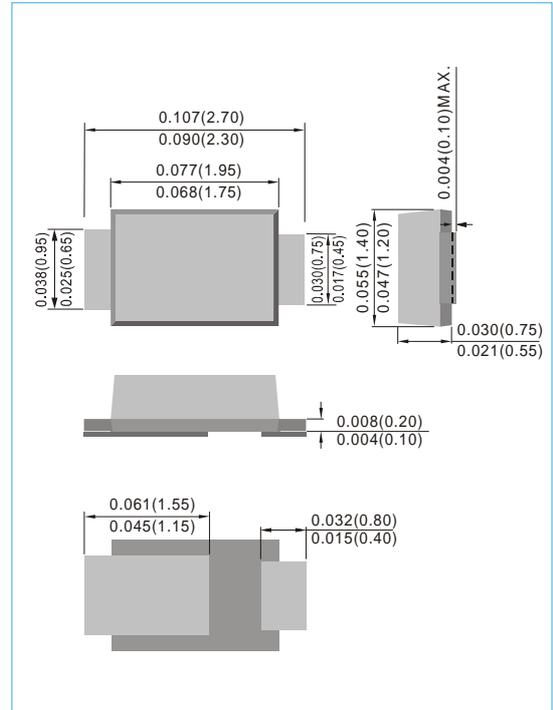
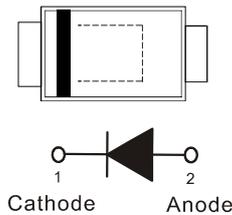
SOD-323HE Unit : inch(mm)

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.

SS1060VHEWS

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 T _A =25°C	-	0.34	0.45	V
		I _F =0.7A T _A =25°C	-	0.49	0.58	
		I _F =1.0A T _A =25°C	-	0.55	0.60	
		I _F =0.1A T _A =125°C	-	0.21	-	V
I _F =0.7A T _A =125°C	-	0.45	-			
I _F =1.0A T _A =125°C	-	0.53	-			
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

SS1060VHEWS

RATING AND CHARACTERISTIC CURVES

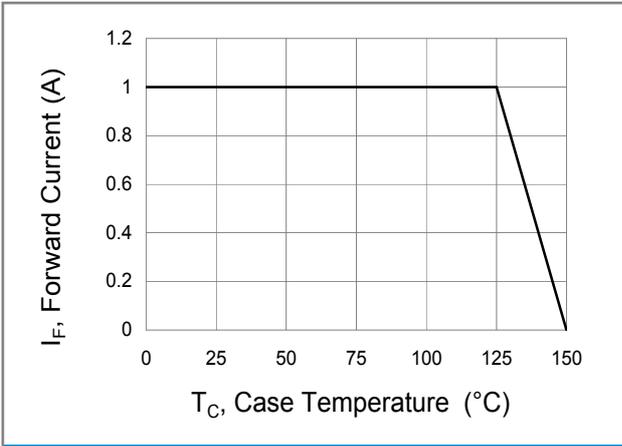


Fig.1 Forward Current Derating Curve

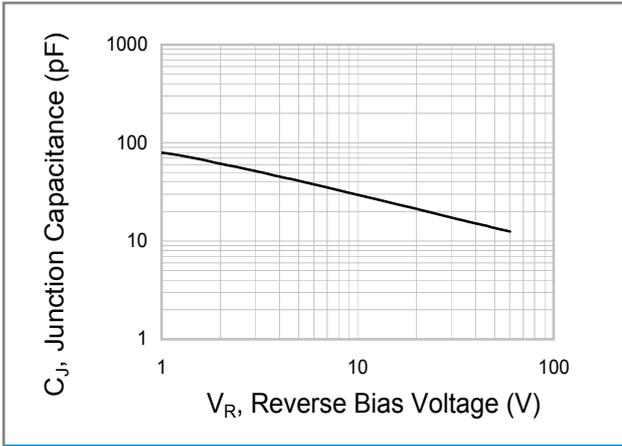


Fig.2 Typical Junction Capacitance

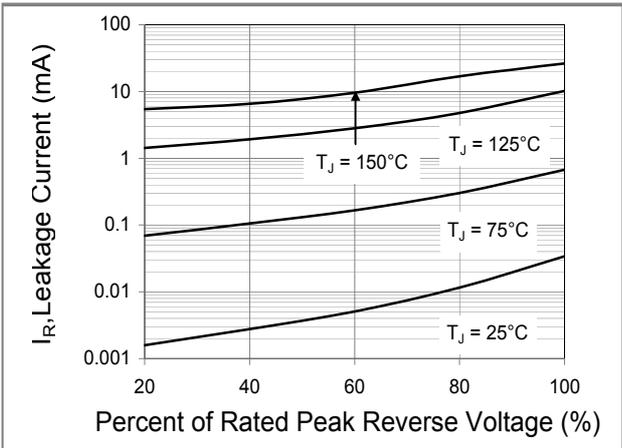


Fig.3 Typical Reverse Characteristics

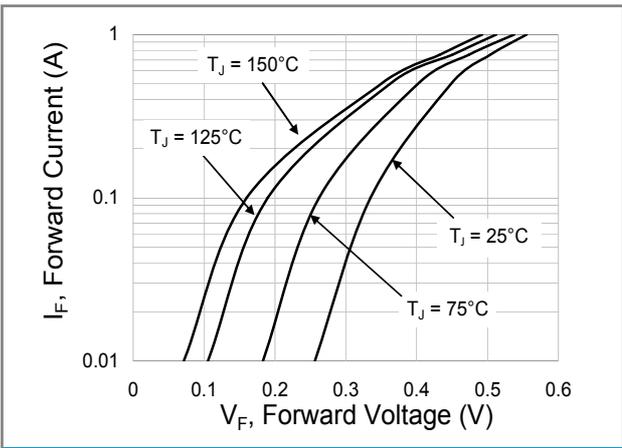


Fig.4 Typical Forward Characteristics

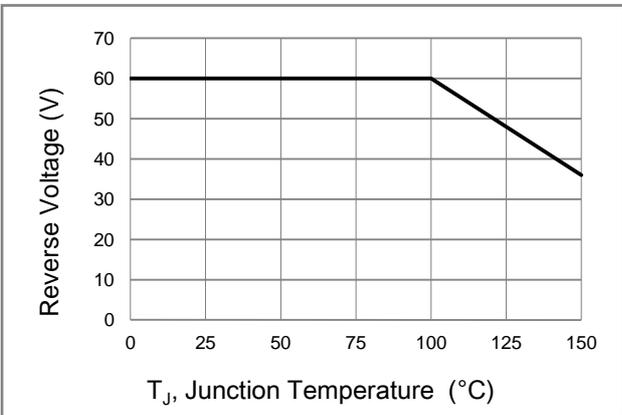
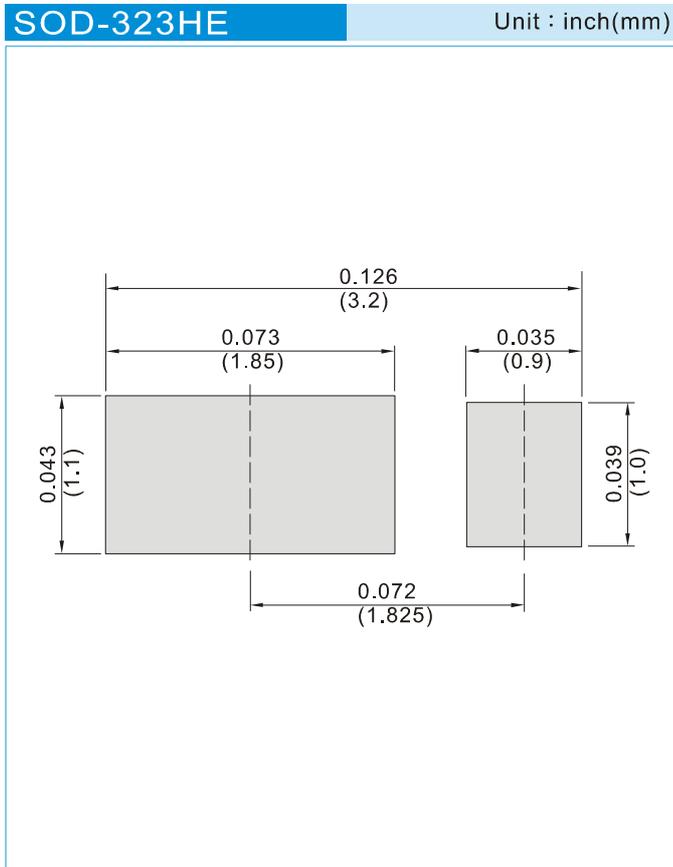


Fig.5 Operating Temperature Derating Curve

SS1060VHEWS

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

SS1060VHEWS

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