

MBR1060HEWS

SCHOTTKY BARRIER DIODE

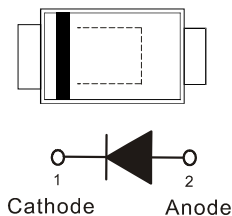
VOLTAGE 60 Volt **CURRENT** 1 Ampere

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)

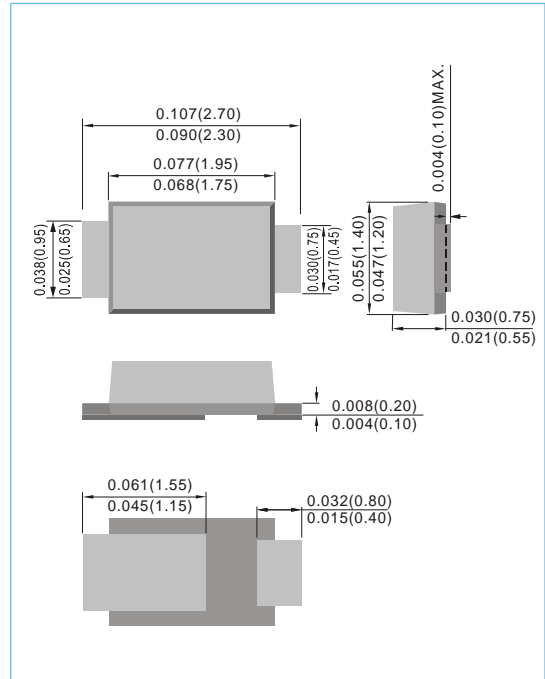
APPLICATIONS

- Case: SOD-323HE, Plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.005 grams
- Low voltage high frequency inverters
- DC/DC converters
- Polarity protection
- Freewheeling
- Marking : KB



SOD-323HE

Unit : inch(mm)



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

PARAMETER	SYMBOL	VALUE	UNITS
Recurrent Peak Reverse Voltage	V _{RRM}	60	V
RMS Voltage	V _{RMS}	42	V
DC Blocking Voltage	V _R	60	V
Average Rectified Output Current	I _{F(AV)}	1	A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	20	A
Typical Thermal Resistance, Junction to Lead (Note 1)	R _{θJL}	40	°C/W
Junction to Ambiente (Note 1)	R _{θJA}	220	°C/W
Operating junction temperature range and Storage temperature range	T _J , T _{STG}	-55 to + 150	°C

Note : Mounted on P.C Board with (15mmx50mm) copper pad areas.

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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 =1mA T _A =25°C	60	-	-	V
Instantaneous forward voltage	V _F	I _F =0.1A T _A =25°C	-	0.41	-	V
		I _F =0.7A	-	0.57	-	
		I _F =1A	-	0.61	0.68	
		I _F =0.1A T _A =125°C	-	0.28	-	V
I _F =0.7A	-	0.51	-			
I _F =1A	-	0.56	-			
Reverse current	I _R	V _R =5V T _A =25°C	-	0.07	-	μA
		V _R =60V T _A =25°C	-	1.05	50	μA
		V _R =60V T _A =125°C	-	0.80	-	mA

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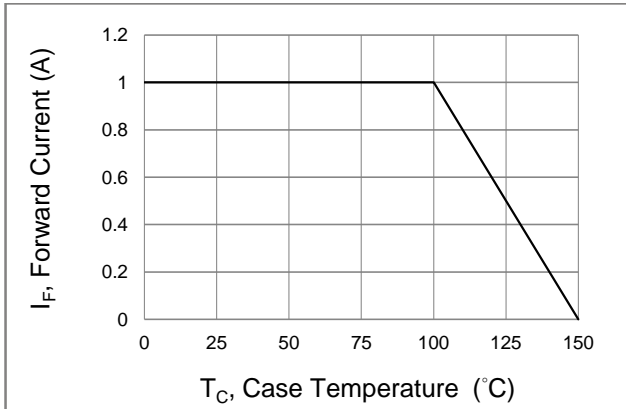


Fig.1 Forward Current Derating Curve

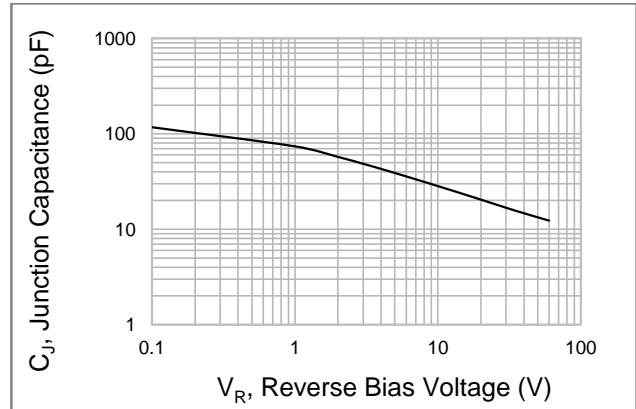


Fig.2 Typical Junction Capacitance

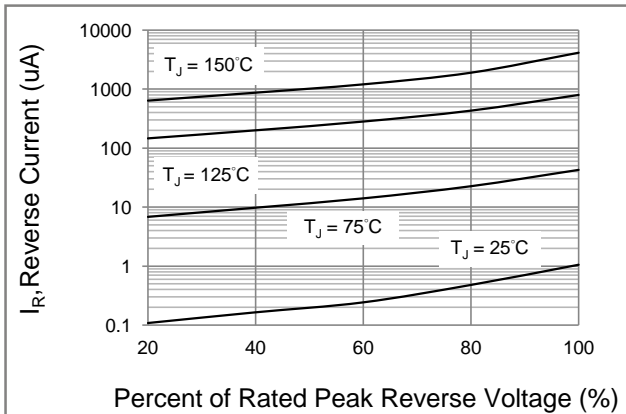


Fig.3 Typical Reverse Characteristics

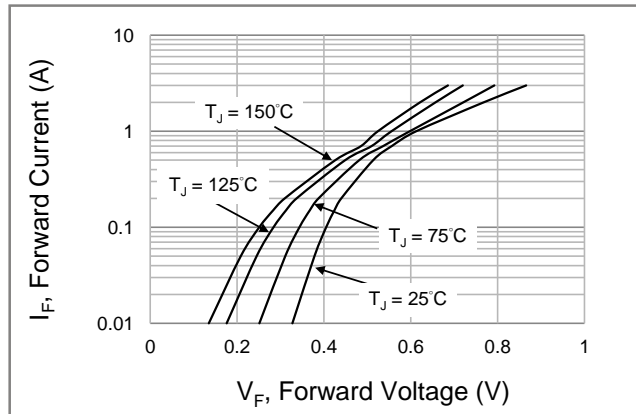


Fig.4 Typical Forward Characteristics

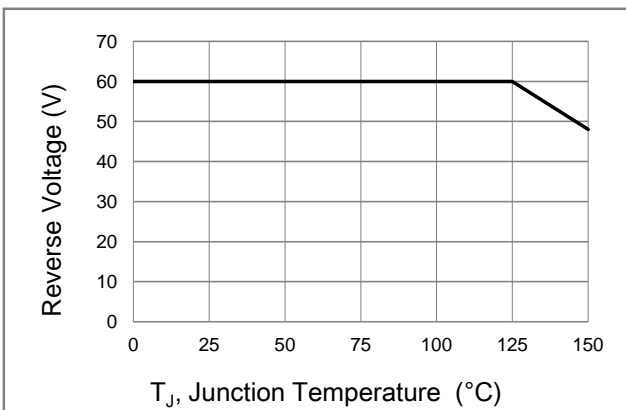
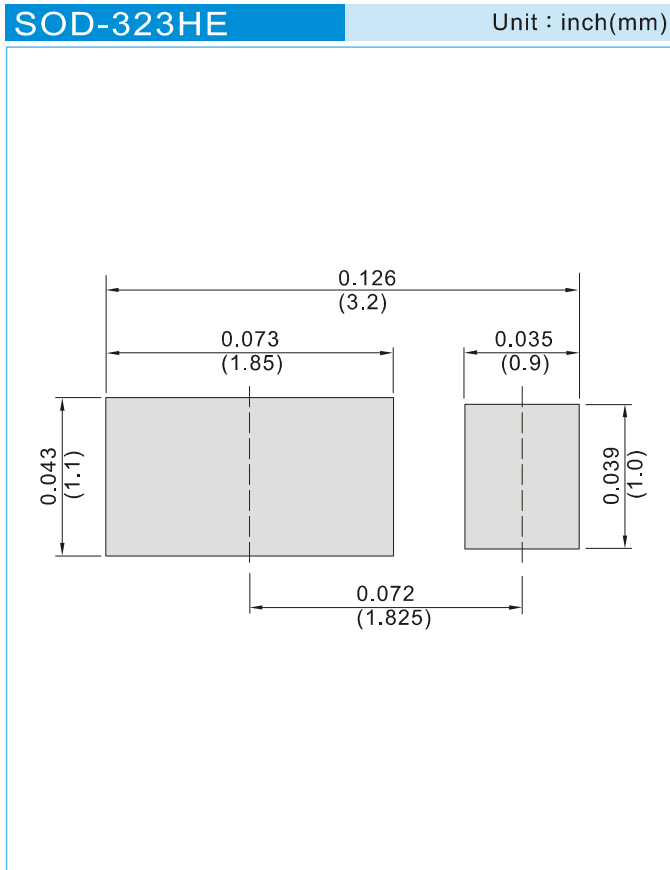


Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT



ORDER INFORMATION

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

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