



SS1030HEWS-AU

SCHOTTKY BARRIER DIODE

FEATURES

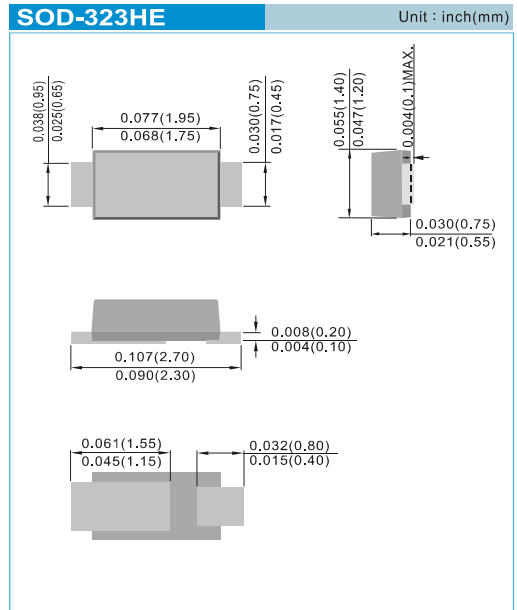
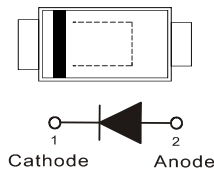
- SOD-323HE low profile package
- Low forward voltage drop, low reverse current
- High Efficiency
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case : SOD-323HE, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Apprx. Weight : 0.0002 ounces, 0.005 grams

APPLICATIONS

- Low voltage high frequency inverters
- DC/DC converters
- Polarity protection
- Freewheeling



ABSOLUTE MAXIMUM RATINGS (TA=25°C)

PARAMETER	SYMBOL	LIMITS	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Maximum Average Rectified Forward Current	I _O	1	A
Peak Forward Surge Current (Half Sine Wave , 1 cycle , non-repetitive)	I _{FSM}	22	A
Operating Junction Temperature Range	T _{JW}	-40 to +150	°C
Storage Temperature Range	T _{STG}	-40 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _{F1}	I _F =0.7A	-	0.42	0.45	V
	V _{F2}	I _F =1A	-	0.47	0.52	V
Reverse Current	I _{R1}	V _R =5V	-	1	-	μA
	I _{R2}	V _R =30V	-	10	100	μA
Thermal Resistance (Note)	R _{θJA}	Junction to Ambient	-	-	220	°C/W
	R _{θJL}	Junction to Lead	-	-	50	°C/W

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



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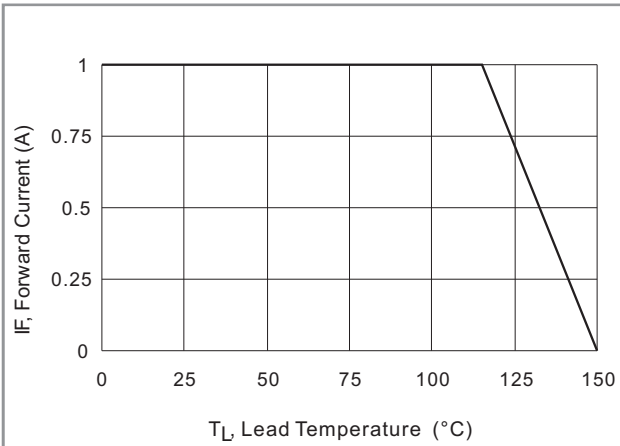


Fig.1 Forward Current Derating Curve

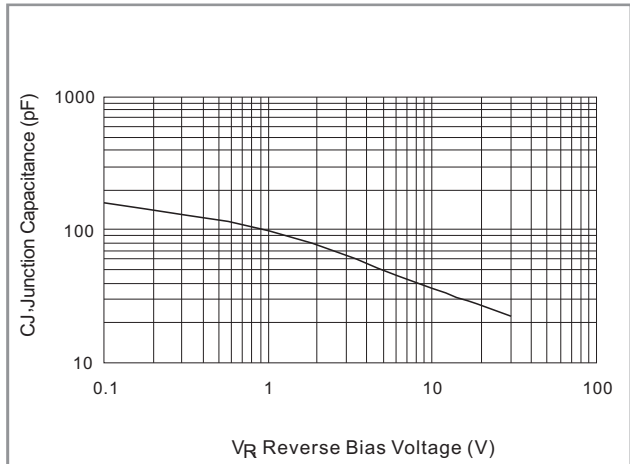


Fig.2 Typical Junction Capacitance

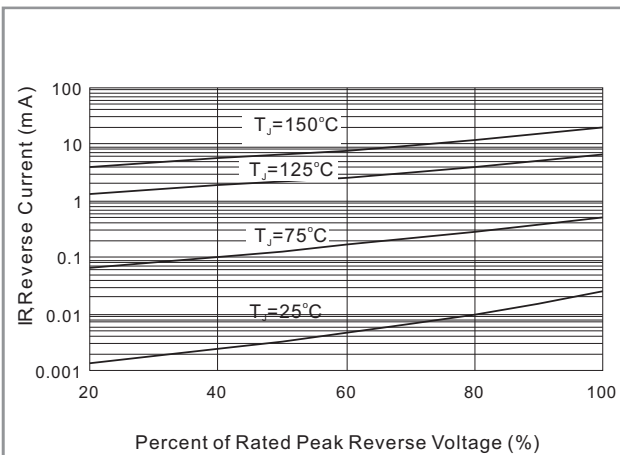


Fig.3 Typical Reverse Characteristics

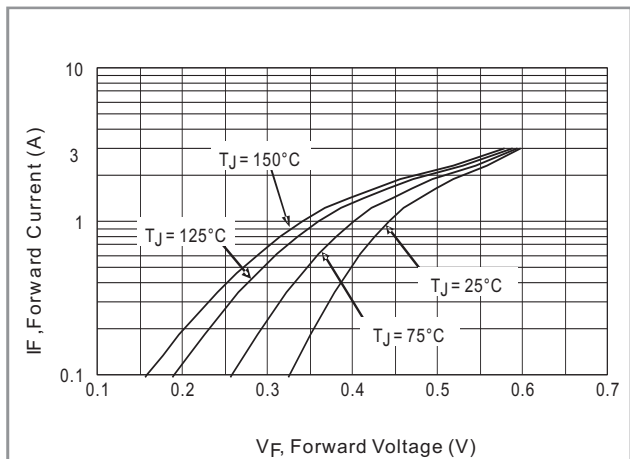


Fig.4 Typical Forward Characteristics

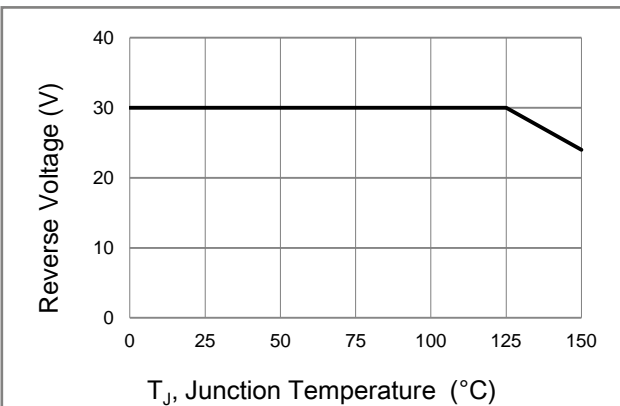


Fig.5 Operating Temperature Derating Curve



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PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1030HEWS-AU_R1_000A1	SOD-323HE	5K pcs / 7" reel	ET	Halogen free
SS1030HEWS-AU_R2_000A1	SOD-323HE	12K pcs / 13" reel	ET	Halogen free

For example :

RB500V-40_R2_00001



Packing type	Packing Code XX			Version Code XXXXX		
	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			

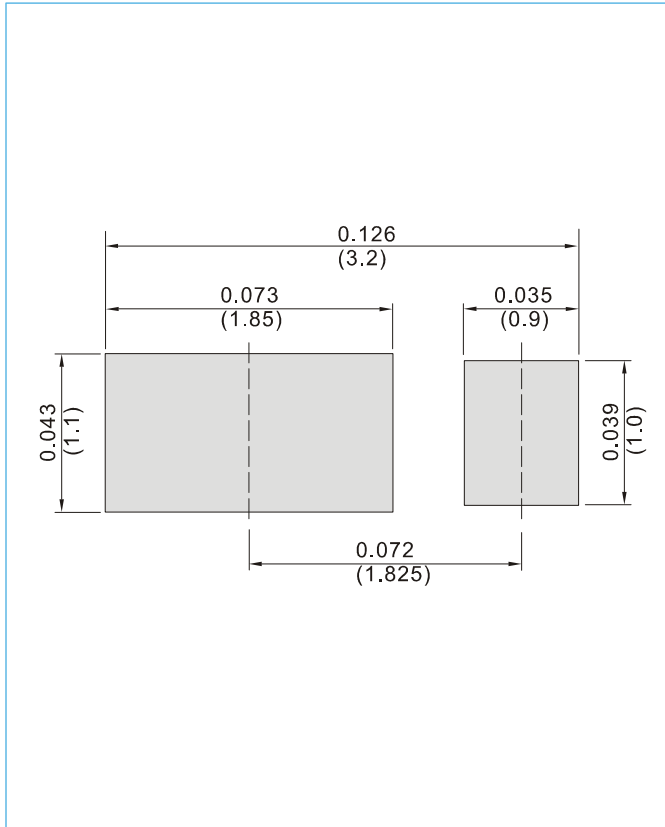


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MOUNTING PAD LAYOUT

SOD-323HE

Unit : inch(mm)





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