



# SS1030HEWS

## SCHOTTKY BARRIER DIODE

### FEATURES

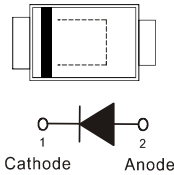
- SOD-323HE low profile package
- Low forward voltage drop, low reverse current
- High Efficiency
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

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

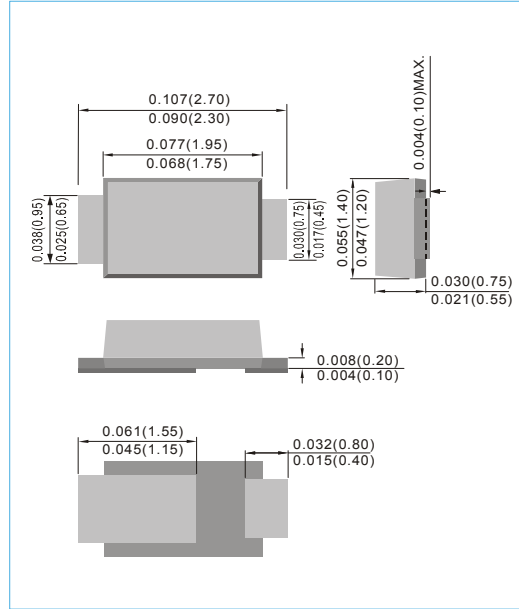
### APPLICATIONS

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



### SOD-323HE

Unit : inch(mm)



### ABSOLUTE MAXIMUM RATINGS (TA=25°C)

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

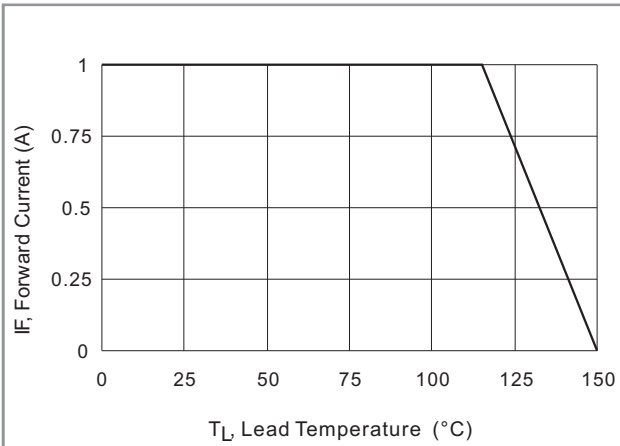
### ELECTRICAL CHARACTERISTICS (TA=25°C)

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

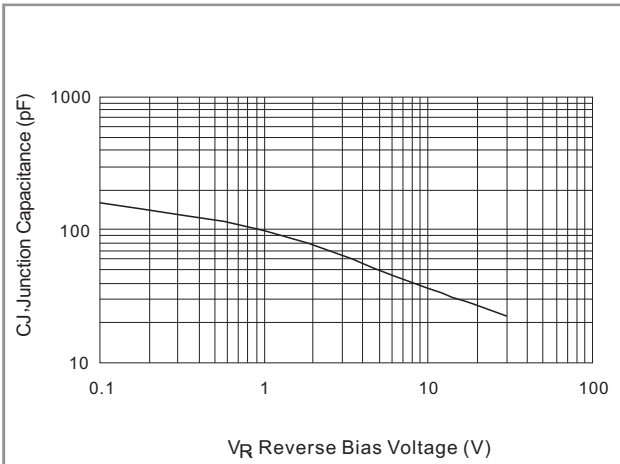
Note : Mounted on P.C Board with (15mmx50mm) copper pad areas.



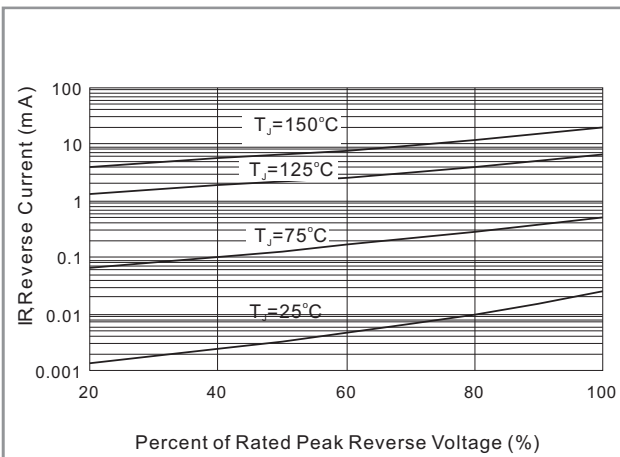
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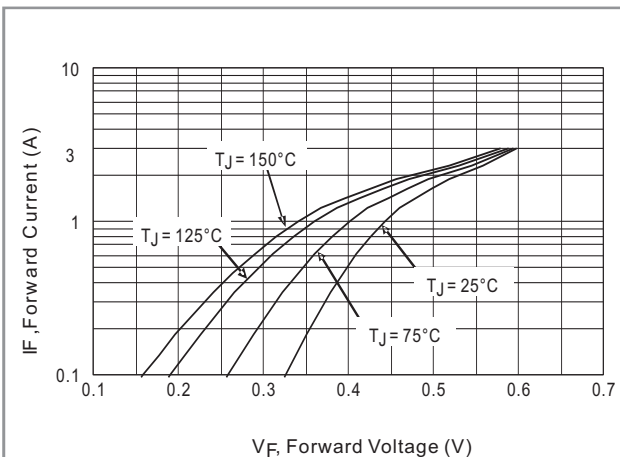
**Fig.1 Forward Current Derating Curve**



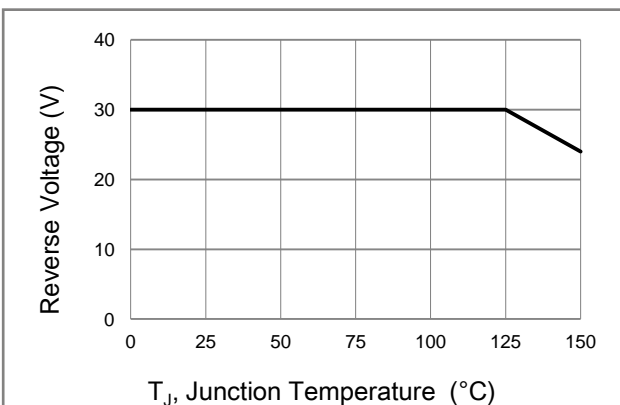
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



**Fig.5 Operating Temperature Derating Curve**



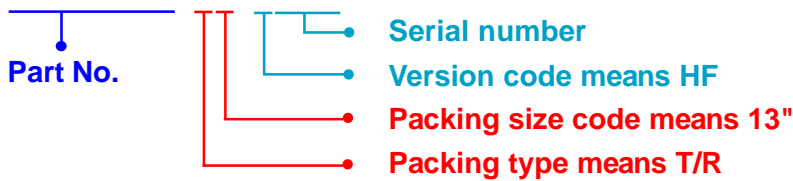
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## PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1030HEWS_R1_00001	SOD-323HE	5K pcs / 7" reel	ET	Halogen free
SS1030HEWS_R2_00001	SOD-323HE	12K pcs / 13" reel	ET	Halogen free

For example :

**RB500V-40** **R2** **00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			

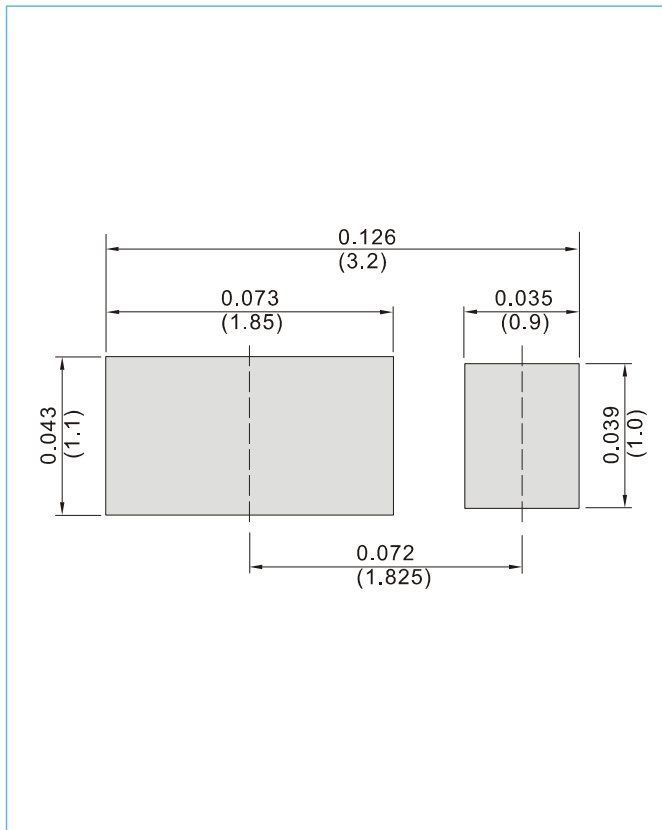


# SS1030HEWS

## MOUNTING PAD LAYOUT

SOD-323HE

Unit : inch(mm)





## SS1030HEWS

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