



# SS1040HEWS

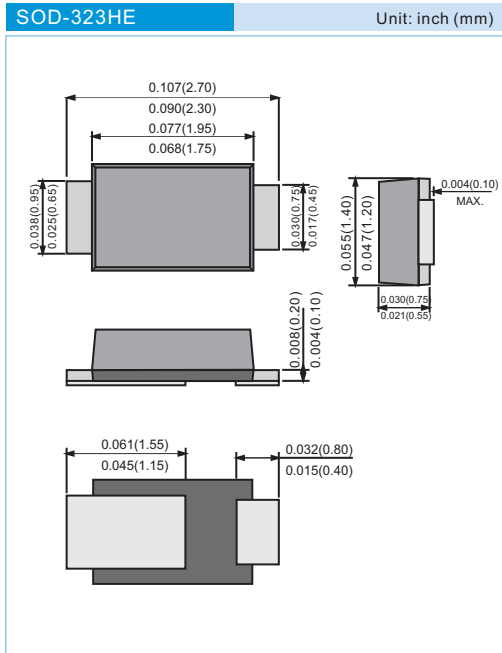
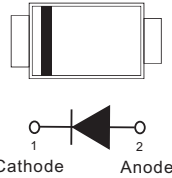
## SCHOTTKY BARRIER DIODE

### FEATURES

- SOD-323HE low profile package
- Low forward voltage drop, low reverse current
- High Efficiency
- In compliance with EU RoHS 2002/95/EC directives and with Halogen Free

### APPLICATIONS

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



### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)

PARAMETER	SYMBOL	LIMITS	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum Average Rectified Forward Current	I <sub>O</sub>	1.0	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

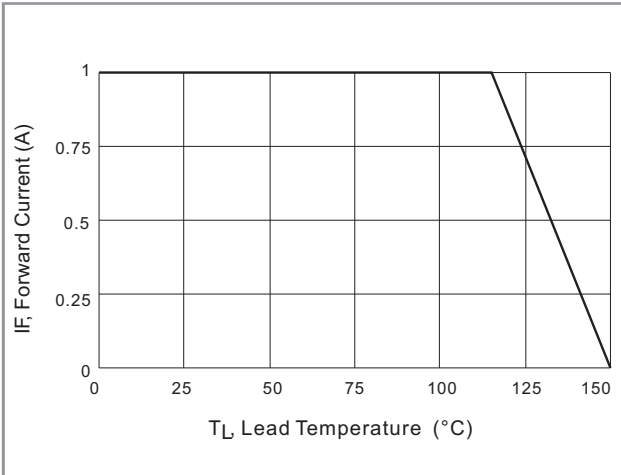
### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F1</sub>	I <sub>F</sub> =0.7A	-	0.48	0.52	V
	V <sub>F2</sub>	I <sub>F</sub> =1.0A	-	0.53	-	V
Reverse Current	I <sub>R1</sub>	V <sub>R</sub> =5V	-	0.5	-	μA
	I <sub>R2</sub>	V <sub>R</sub> =40V	-	3.0	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

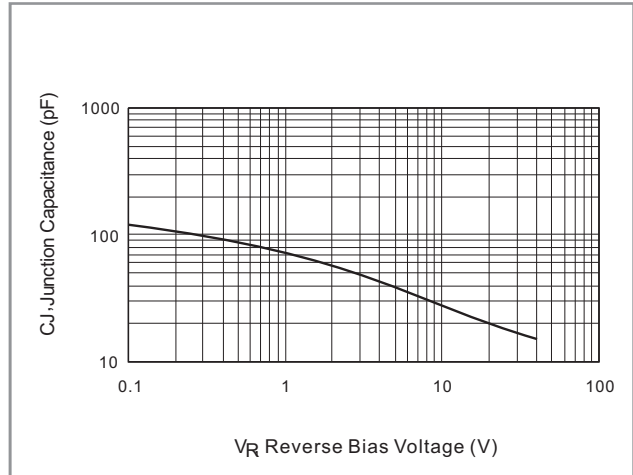
Note : Mounted on P.C Board with (15mmx50mm) copper pad areas.



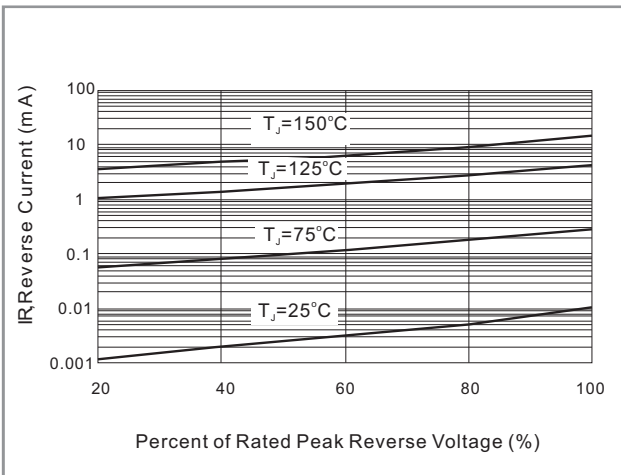
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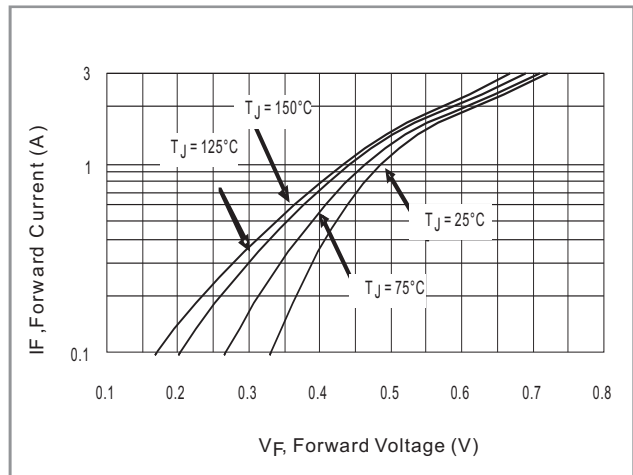
**Fig. 1 Forward Current Derating Curve**



**Fig. 2 Typical Junction Capacitance**



**Fig. 3 Typical Reverse Characteristics**

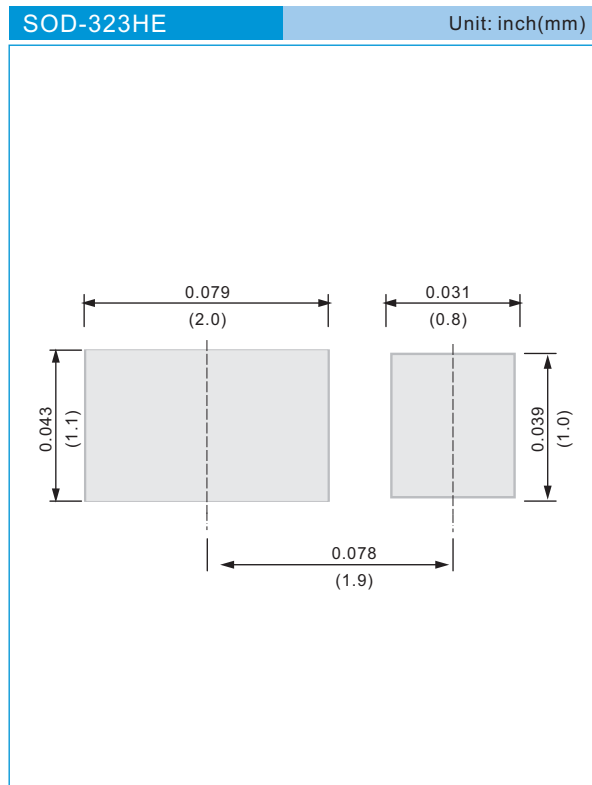


**Fig. 4 Typical Forward Characteristics**



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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

## LEGAL STATEMENT

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