



### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 60 Volts CURRENT 1 Ampere

#### **FEATURES**

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

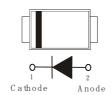
#### **MECHANICAL DATA**

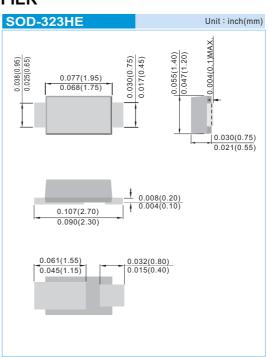
Case: SOD-323HE, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Weight: 0.0007 ounces, 0.0185 grams

Marking:E6





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

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	42	V
Maximum DC Blocking Voltage	V <sub>R</sub>	60	V
Maximum Average Forward Current	I <sub>o</sub>	1	Α
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	22	А
Typical Thermal Resistance, Junction to Ambient (Note 1)  Junction to Lead (Note 2)	R <sub>⊖JA</sub> R <sub>⊖JL</sub>	135 19	°C/W
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150	°C

### NOTES:

- 1.Mounted on 1cm<sup>2</sup> pad layout.
- 2.Mounted on 50cm<sup>2</sup> copper pad area.

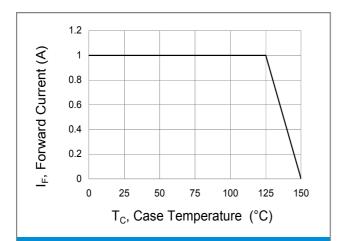




## ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	VBR	I R=100μA	T <sub>A</sub> =25°C	60	-	-	V
Instantaneous forward voltage	VF	I F=0.1A I F=0.7A I F=1.0A	T <sub>A</sub> =25°C	- - -	0.34 0.49 0.55	0.45 0.58 0.60	V
	VF	I F=0.1A I F=0.7A I F=1.0A	T <sub>A</sub> =125°C		0.21 0.45 0.53	- - -	V
Reverse current		V <sub>R</sub> =48V	T <sub>A</sub> =25°C	-	5.1	-	μΑ
	IR	VR=60V	T <sub>A</sub> =25°C T <sub>A</sub> =125°C	-	- 10	100 -	μA mA
Typical Junction capacitance	Cı	V <sub>R</sub> =0V , f=1MHz		-	136	-	pF

### RATING AND CHARACTERISTIC CURVES



**Fig.1 Forward Current Derating Curve** 

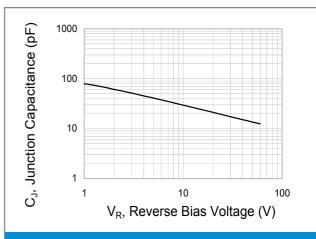


Fig.2 Typical Junction Capacitance

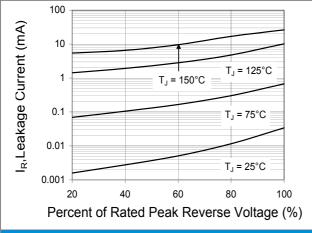
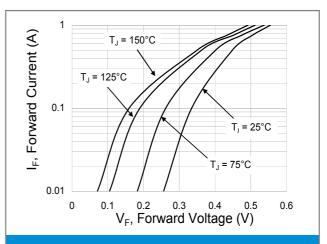


Fig.3 Typical Reverse Characteristics

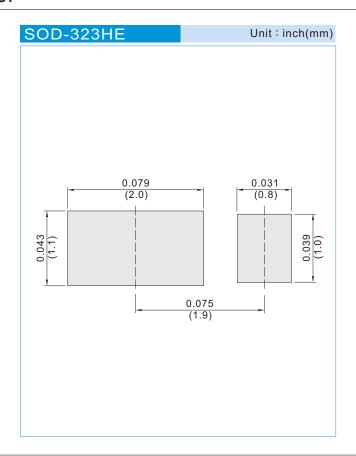


**Fig.4 Typical Forward Characteristics** 





#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel





## Part No\_packing code\_Version

SS1060VHEWS\_R1\_00001 SS1060VHEWS\_R2\_00001

## For example :



Packing Code XX			Version Code XXXXX			
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)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	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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