



### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

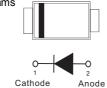
VOLTAGE 40-200Volts CURRENT 1 Ampere SOD-

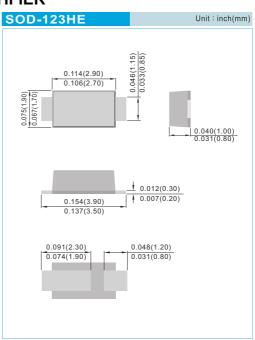
### **FEATURES**

- · Fast switching speed
- · Surface mount package ideally suited for automatic insertion
- · Electrical identical standard JEDEC.
- · High conductor
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#### **MECHANICAL DATA**

- Case: SOD-123HE, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Apporx. Weight: 0.00015 ounces, 0.00424 grams
- · Polarity:Color band denotes cathode end





# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	SS1040HE	SS1060HE	SS10150HE	SS10200HE	UNITS
Marking Code		EM	EN	ERL	ES	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	60	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	42	105	140	V
Maximum DC Blocking Voltage	V <sub>R</sub>	40	60	150	200	V
Maximum Average Forward Current at Temp=75°C	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>	30				А
Maximum Forward Voltage at 1A	V <sub>F</sub>	0.55	0.55 0.7 0.85			V
Maximum DC Reverse Current	I <sub>R</sub>	100				μΑ
Typical Junction capacitance at V <sub>R</sub> =0V, f=1MHz	CJ	155	125	8	15	pF
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Case (Note 1)	R <sub>⊕JA</sub> R <sub>⊕JC</sub>	225 20				°C/W
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150				°C

### NOTES:

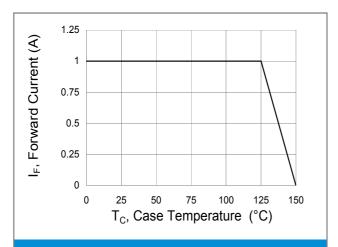
1.Mounted on 48cm<sup>2</sup> FR-4 PCB board.

October 04,2011-REV.02 PAGE . 1





### **RATING AND CHARACTERISTIC CURVES**



**Fig.1 Forward Current Derating Curve** 

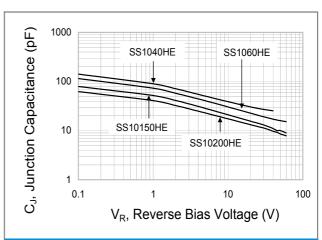


Fig.2 Typical Junction Capacitance

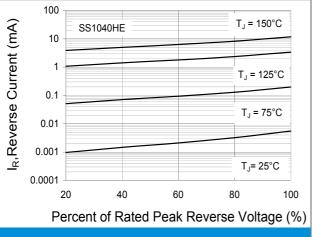


Fig.3 Typical Reverse Characteristics

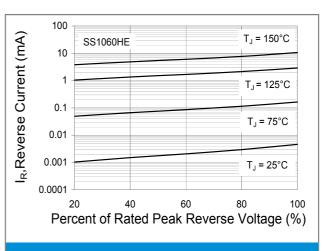
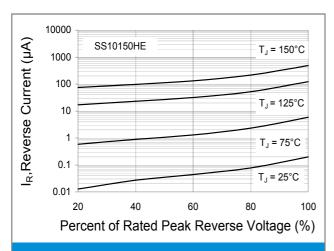


Fig.4 Typical Reverse Characteristics



**Fig.5 Typical Reverse Characteristics** 

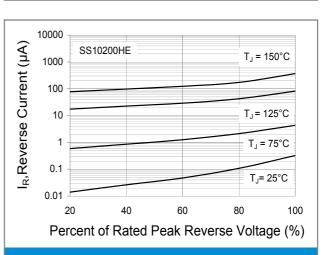


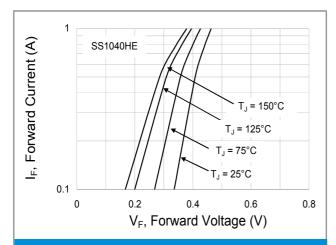
Fig.6 Typical Reverse Characteristics

September 20,2011-REV.02 PAGE . 2





## **RATING AND CHARACTERISTIC CURVES**



**Fig.7 Typical Forward Characteristics** 

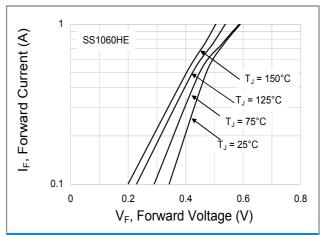
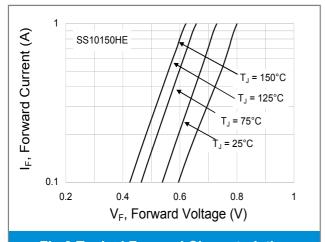


Fig.8 Typical Forward Characteristics



**Fig.9 Typical Forward Characteristics** 

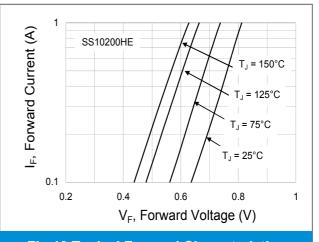


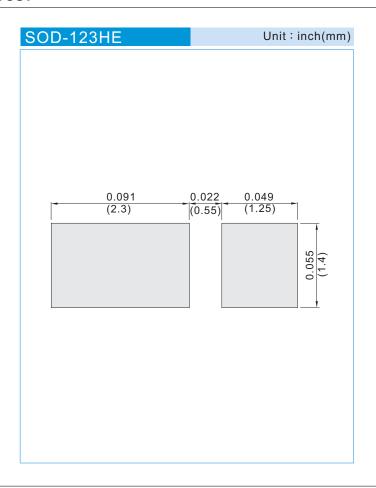
Fig.10 Typical Forward Characteristics

September 20,2011-REV.02 PAGE .3





### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

### **LEGAL STATEMENT**

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September 20,2011-REV.02 PAGE . 4