SS14HE THRU SS120HE

Surface Mount Schottky Barrier Rectifier Reverse Voltage - 40 to 200 V Forward Current - 1.0A

FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- · Low power loss, high efficiency
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

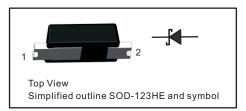
· Case: SOD-123HE

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

• Approx. Weight: 15mg/0.00048oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings and Electrical characteristics

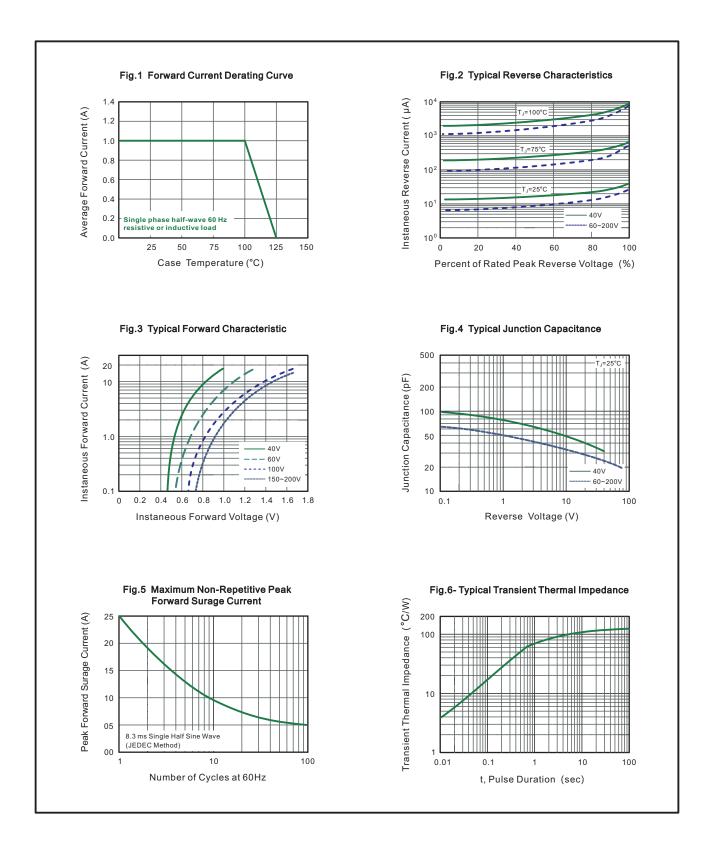
Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 $^{\circ}$ C

Parameter	Symbols	SS14HE	SS16HE	SS110HE	SS115HE	SS120HE	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	42	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	60	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0					А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	25					А
Max Instantaneous Forward Voltage at 1 A	V _F	0.55	0.70	0.85	0.95		V
Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Reverse Voltage $T_a = 100^{\circ}$ C				mA			
Typical Junction Capacitance (1)	C _j	60 40			pF		
Typical Thermal Resistance (2)	$R_{\theta JA}$	120			°C/W		
Operating Junction Temperature Range	Tj	-55 ~ +125			°C		
Storage Temperature Range	T _{stg} -55 ~ +		-55 ~ +150			°C	

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽²⁾ P.C.B. mounted with 8X 8 mm copper pad areas.

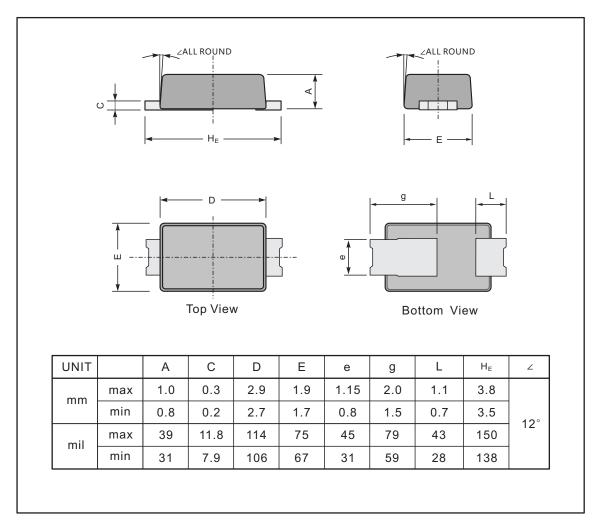
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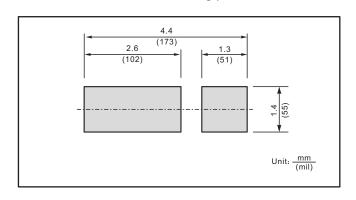
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123HE



The recommended mounting pad size



Marking

Type number	Marking code			
SS14HE	SK14			
SS16HE	SK16			
SS110HE	SK110			
SS115HE	SK115			
SS120HE	SK120			

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