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

#### **FEATURES**

- · Heatsink structure
- Metal silicon junction, majority carrier conduction
- · Super Low VF Schottky barrier diodes
- 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**

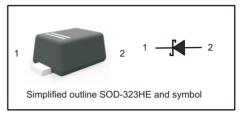
· Case: SOD-323HE

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

Approx. Weight: 5.4mg/0.00019oz

#### **PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode

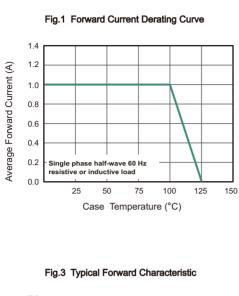


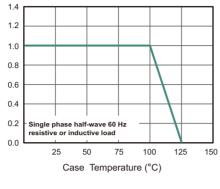
#### **Maximum Ratings** (TA = 25 °C unless otherwise noted)

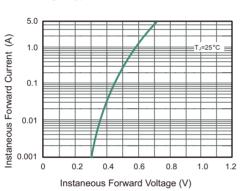
Parameter	Symbols	PS14HS	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	V
Maximum RMS voltage	V <sub>RMS</sub>	28	V
Maximum DC blocking voltage	V <sub>DC</sub>	40	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	1.0	А
Peak forward surge current 8.3 ms single half sinewave superimposed on rated load	I <sub>FSM</sub>	7	А
Operating junction temperature range	Tj	125	°C
Storage temperature range	T <sub>stg</sub>	- 55 to + 150	°C

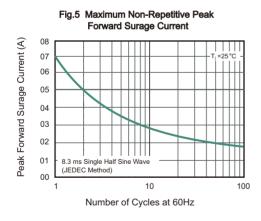
## **Electrical Characteristics** (TA = 25 °C unless otherwise noted)

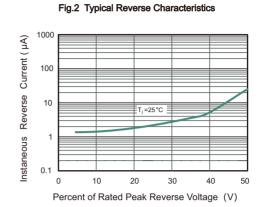
Parameter	Test Conditions	Symbols	PS14HS	Units
Minimum Breakdown voltage	T <sub>a</sub> = 25°C,I <sub>R</sub> =1mA	$V_{BR}$	40	V
Maximum instantaneous forward voltage	I⊧=1A,Ta=25℃	V <sub>F</sub>	0.60	V
Maximum DC reverse current at rated DC blocking voltage	T <sub>a</sub> = 25°C	I <sub>R</sub>	50	uA
Typical junction capacitance	4.0 V, 1 MHz	C <sub>J</sub>	60	pF

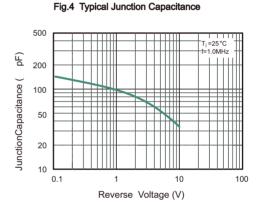








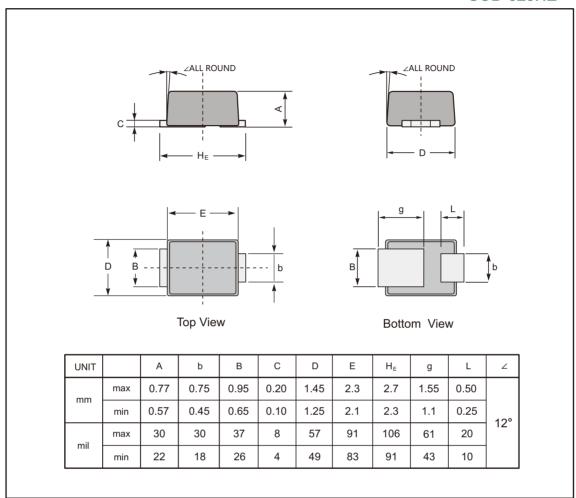




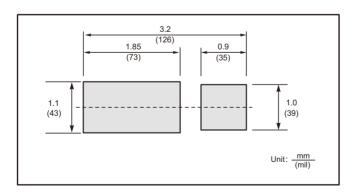
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

## SOD-323HE



## The recommended mounting pad size



#### Marking

Type number	Marking code	
PS14HS	148	

# **Important Notice and Disclaimer**

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