

# SSB16HS-HAF

## Surface Mount Schottky Barrier Rectifier

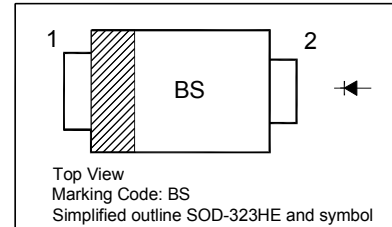
Reverse Voltage - 60 V  
Forward Current - 1 A

### Features

- Halogen and Antimony Free(HAF), RoHS compliant

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	Value	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	60	V
Maximum RMS Voltage	$V_{RMS}$	42	V
Maximum DC Blocking Voltage	$V_{DC}$	60	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length	$I_{F(AV)}$	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	40	A
Maximum Forward Voltage at $I_F = 0.1$ A at $I_F = 0.7$ A at $I_F = 1$ A	$V_F$	0.45 0.58 0.6	V
Maximum Reverse Current at Rated DC Blocking Voltage	$I_R$	0.1 10	mA
		$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	
Typical Junction Capacitance <sup>1)</sup>	$C_J$	136	pF
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JA}$	135	°C/W
Operating Junction Temperature Range	$T_j$	- 55 to + 150	°C
Storage Temperature Range	$T_{stg}$	- 55 to + 150	°C

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 0V.

<sup>2)</sup> Mounted on 1 cm<sup>2</sup> pad layout.

**TOP DYNAMIC**



ISO14001 : 2004 Certificate No. 121505007  
ISO 9001 - 2008 Certificate No. 50114012  
OHSAS 18001 : 2007 Certificate No. 0515150806  
IECQ QC 080000 Certificate No. E241000744M2

Dated:10/07/2015 Rev: 02

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MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

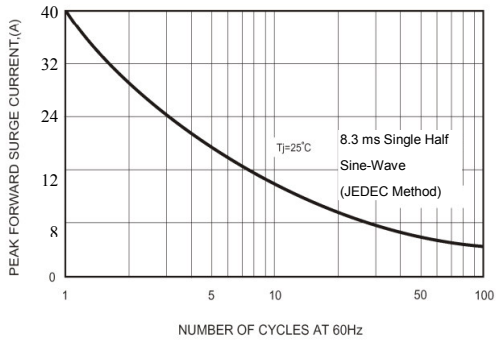
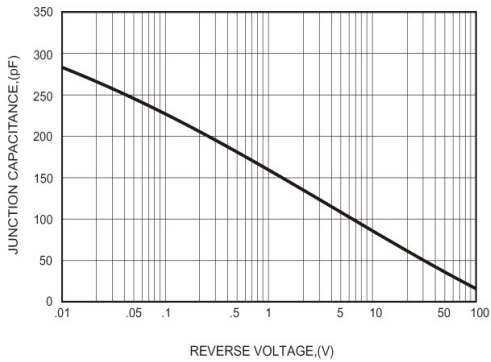
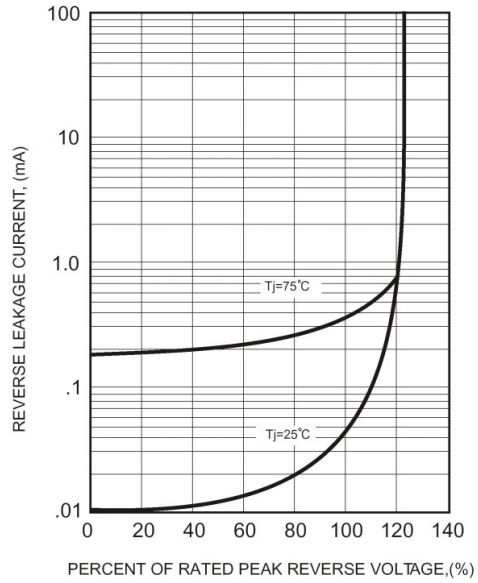


FIG.4-TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTICS



**TOP DYNAMIC**

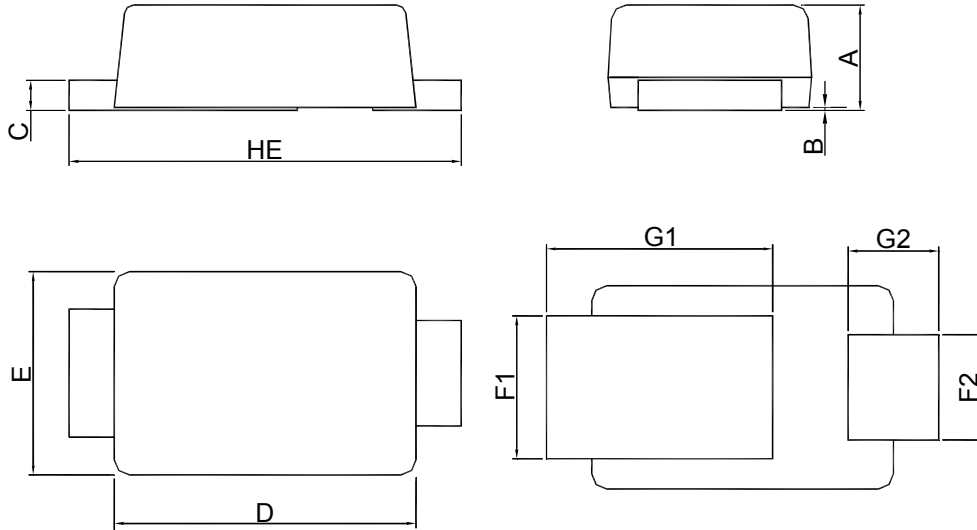


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## PACKAGE OUTLINE

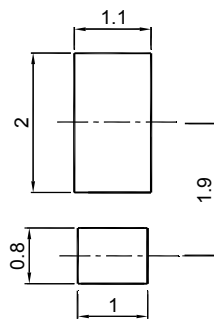
Plastic surface mounted package; 2 leads

SOD-323HE



UNIT	A	B	C	D	E	F1	F2	G1	G2	H <sub>E</sub>
mm	0.7	0.02	0.2	2	1.35	0.95	0.7	1.5	0.6	2.6
	0.5	0	0.1	1.8	1.15	0.75	0.5	1.3	0.4	2.4

## RECOMMENDED SOLDERING FOOTPRINT



SOD-323HE

**TOP DYNAMIC**

