

SDB14BHS-HAF

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 V

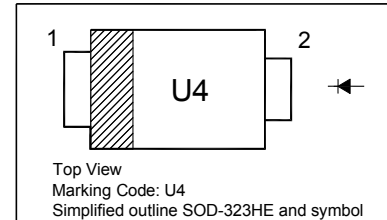
Forward Current - 1 A

Features

- Halogen and Antimony Free(HAF), RoHS compliant

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

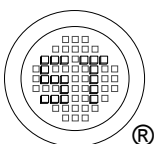


Absolute Maximum Ratings and Characteristics

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}	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30	A
Maximum Forward Voltage at $I_F = 1$ A	V_F	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.5 10	mA
Typical Junction Capacitance ¹⁾	C_j	120	pF
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JC}$	90	°C/W
Operating Junction Temperature Range	T_j	- 55 to + 125	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

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



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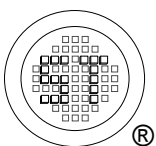
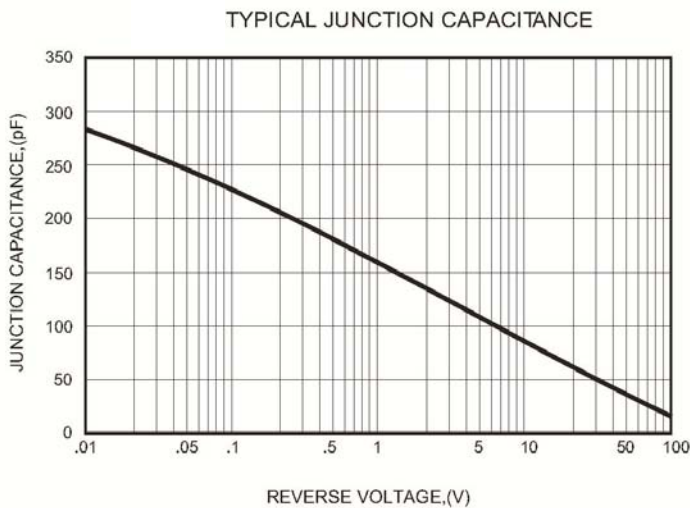
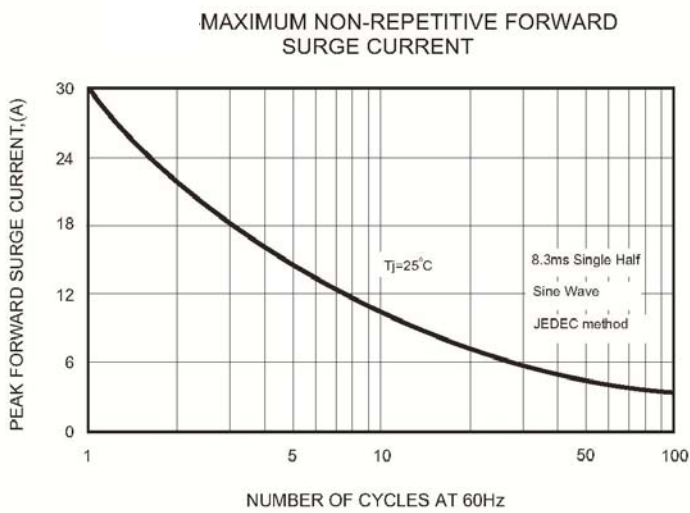
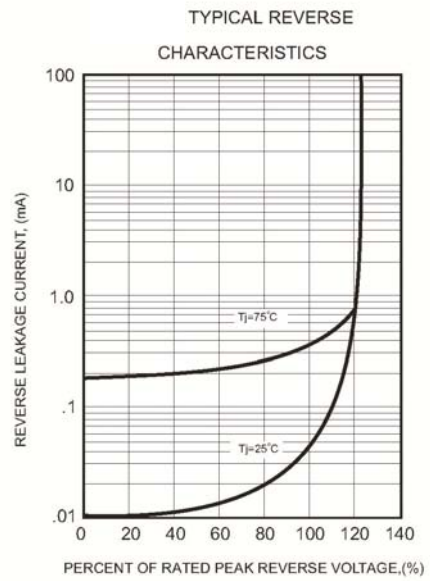
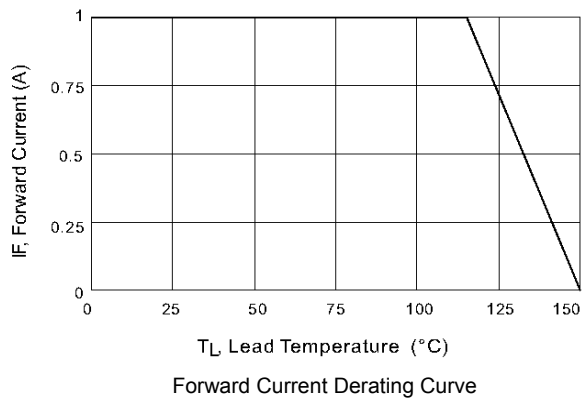


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IECQ QC 080000
Certificate No. PCC-0800-0801

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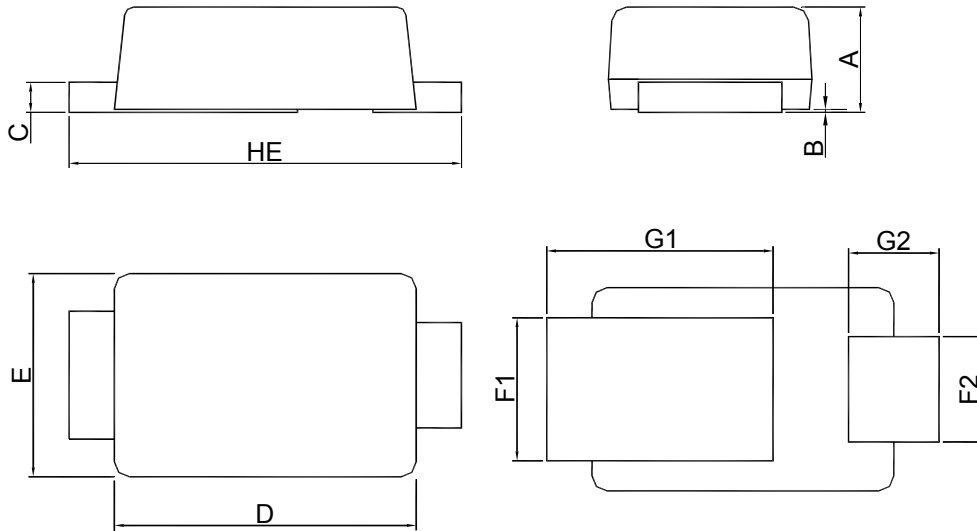


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PACKAGE OUTLINE

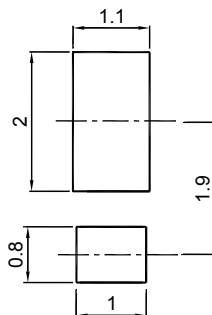
Plastic surface mounted package; 2 leads

SOD-323HE



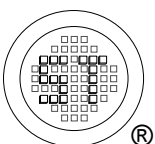
UNIT	A	B	C	D	E	F1	F2	G1	G2	H _E
mm	0.7	0.02	0.2	2	1.35	0.95	0.7	1.5	0.6	2.6
	0.5	0	0.1	1.8	1.15	0.75	0.5	1.3	0.4	2.4

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-323HE	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000



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Dated: 14/07/2016 Rev: 01