

SDB23HS-AH

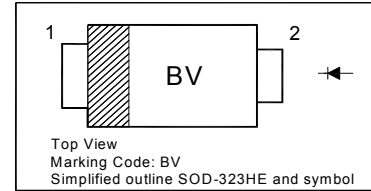
Surface Mount Schottky Barrier Rectifier

Features

- Ultra small surface mount package
- High surge capability
- AEC-Q101 Qualified
- Halogen and Antimony Free(HAF), RoHS compliant

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



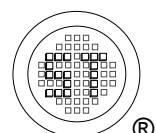
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$ unless otherwise specified

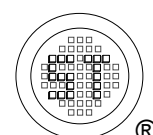
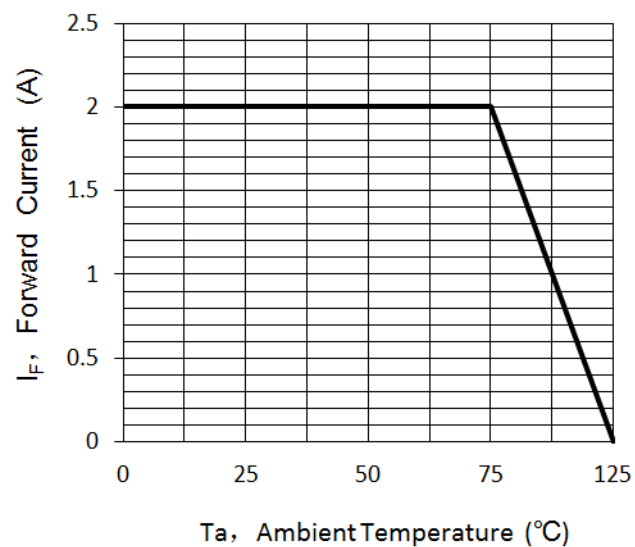
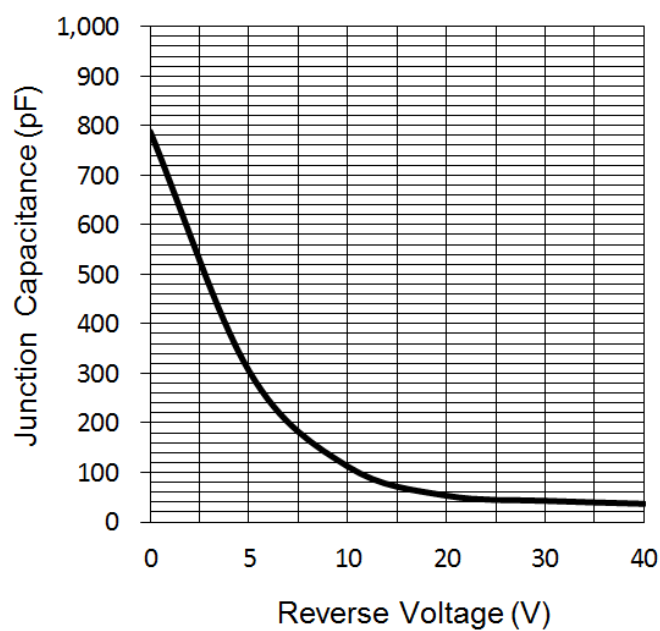
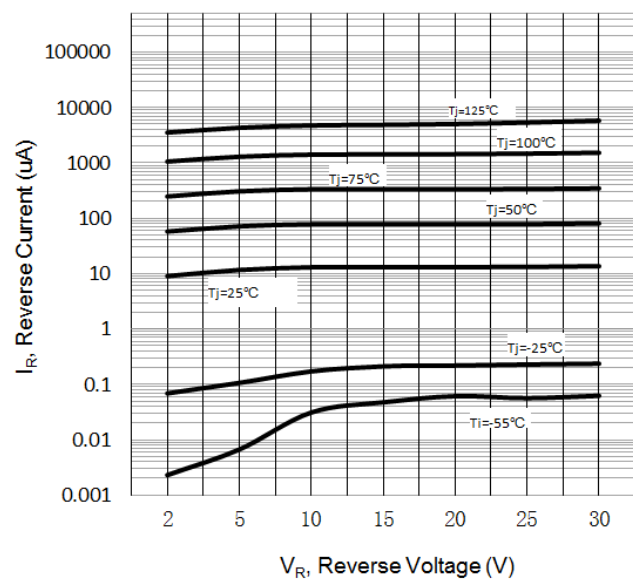
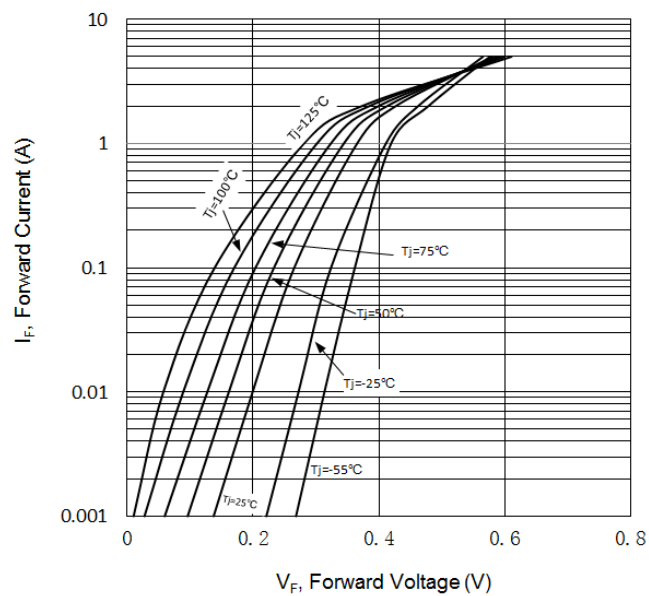
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Working Peak Reverse Voltage	V_{RWM}	30	V
DC Blocking Voltage	V_R	30	V
Average Forward Current	$I_{F(AV)}$	2	A
Peak Forward Surge Current ($t_p = 8.3 \text{ ms}$)	I_{FSM}	30	A
Typical Thermal Resistance Junction to Ambient ¹⁾	$R_{\theta JA}$	177	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

¹⁾ FR-4 PCB, 2 oz. Copper.

Characteristics at $T_a = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 2 \text{ A}$ at $I_F = 2 \text{ A}$, $T_a = 125^\circ\text{C}$	V_F	- -	- -	0.45 0.36	V
Reverse Breakdown Voltage at $I_R = 150 \mu\text{A}$	$V_{(BR)R}$	30	-	-	V
Reverse Current at $V_R = 5 \text{ V}$ at $V_R = 30 \text{ V}$	I_R	- -	- -	25 120	μA
Total Capacitance at $V_R = 10 \text{ V}$, $f = 1 \text{ MHz}$	C_T	-	100	-	pF



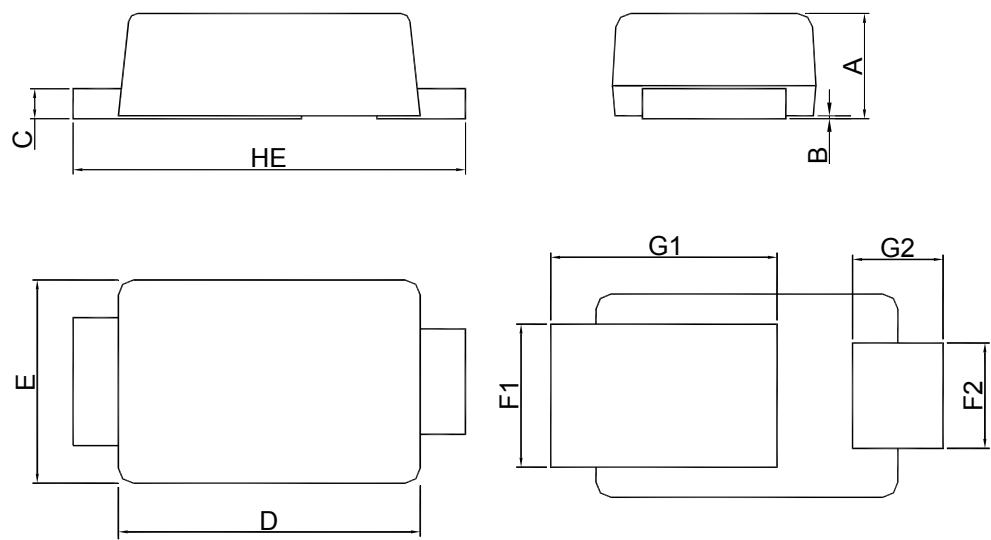


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PACKAGE OUTLINE

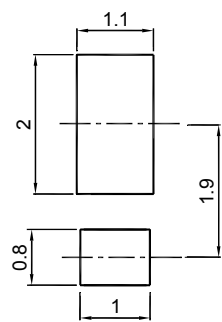
Plastic surface mounted package; 2 leads

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

