

# SDB13HT-AH

## SCHOTTKY BARRIER DIODE

### Features

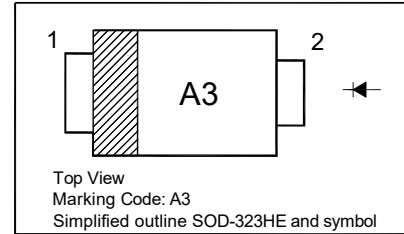
- AEC-Q101 Qualified
- Low profile surface mount package
- Low power loss,high efficiency
- Halogen and Antimony Free(HAF), RoHS compliant

### Applications

- Switching power supply
- Reversed battery connection protdction
- DC/DC converter

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



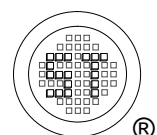
### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	30	V
Forward Current	$I_F$	1	A
Peak Forward Surge Current ( $t_p = 8.3$ ms)	$I_{FSM}$	25	A
Power Dissipation <sup>1)</sup>	$P_D$	667	mW
Junction Temperature	$T_J$	- 40 to + 125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 40 to + 125	$^\circ\text{C}$

<sup>1)</sup> Mounted on a glass epoxy board (Soldering land: 6 mm X 6 mm)

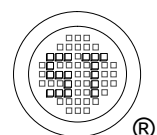
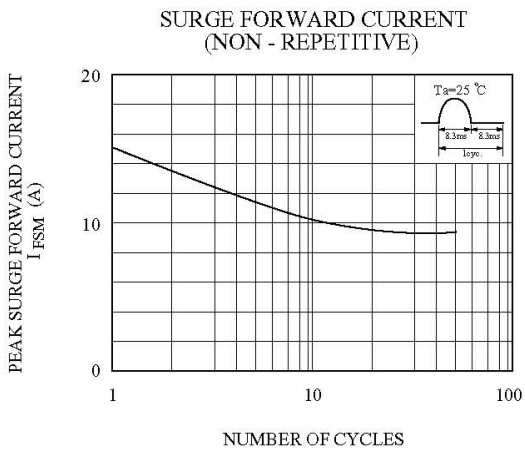
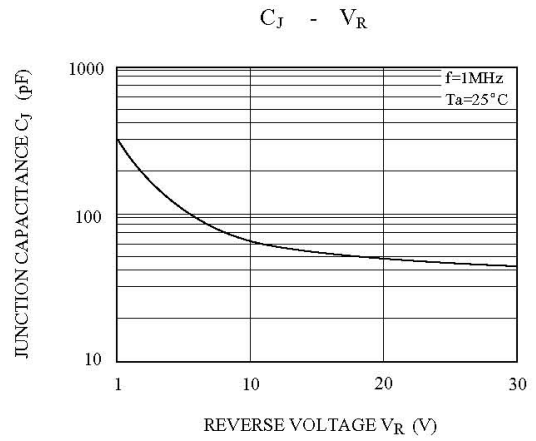
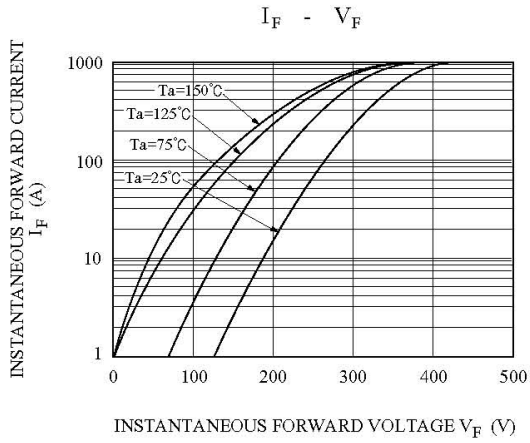
### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 1$ A	$V_F$	-	0.47	V
Reverse Current at $V_R = 5$ V at $V_R = 30$ V	$I_R$	-	40 200	$\mu\text{A}$
Junction Capacitance at $V_R = 10$ V, $f = 1$ MHz	$C_j$	30	-	pF



# SDB13HT-AH

## Electrical Characteristics Curves

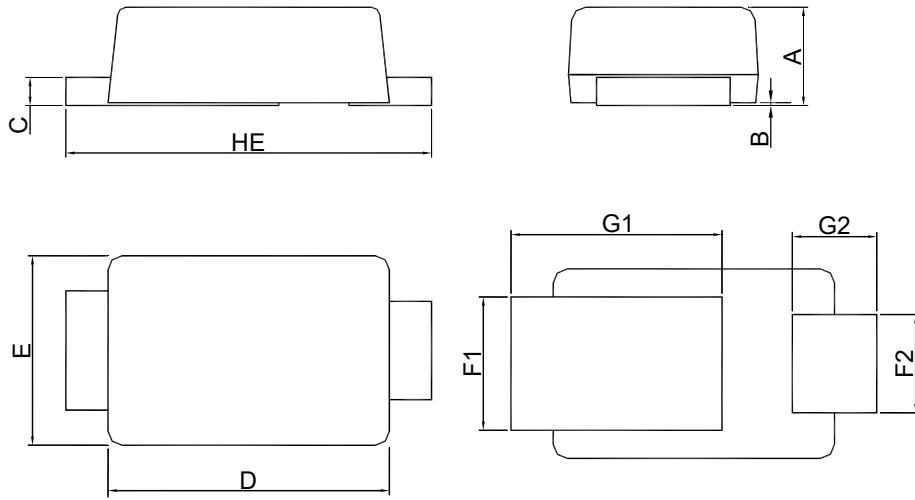


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## PACKAGE OUTLINE

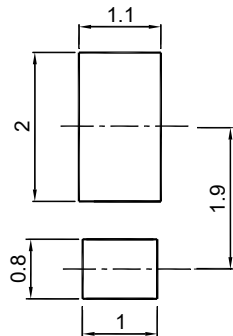
Plastic surface mounted package; 2 leads

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



## 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

## Marking information

- " III " = Cathode line
  - " A3 " = Part No.
  - " • " = HAF (Halogen and Antimony Free)
- Font type: Arial

