

SDB13LHS-HAF

SCHOTTKY BARRIER DIODE

Features

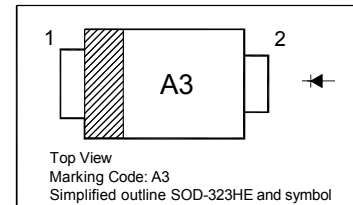
- Low profile surface mount package
- Low power loss,high efficiency
- Halogen and Antimony Free(HAF), RoHS compliant

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 ($t_p = 8.3 \text{ ms}$)	I_{FSM}	25	A
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	177	$^\circ\text{C/W}$
Operating Temperature Range	T_J	- 65 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

¹⁾ Mounted on a glass epoxy board (Soldering land: 6 mm X 6 mm)

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

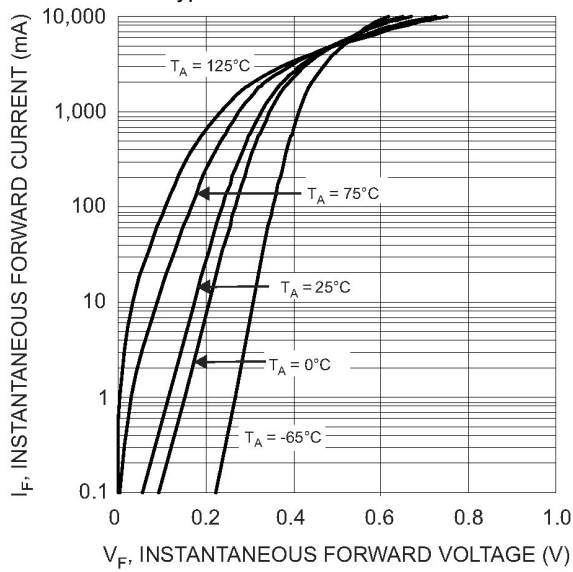
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1.5 \text{ mA}$	$V_{(BR)R}$	30	-	-	V
Forward Voltage at $I_F = 0.1 \text{ A}$ at $I_F = 0.7 \text{ A}$ at $I_F = 1 \text{ A}$	V_F	- - -	- - -	0.33 0.37 0.42	V V V
Reverse Current at $V_R = 5 \text{ V}$ at $V_R = 30 \text{ V}$	I_R	- -	- -	250 1.5	μA mA
Junction Capacitance at $V_R = 10 \text{ V}$, $f = 1 \text{ MHz}$	C_j	-	40	-	pF

TOP DYNAMIC

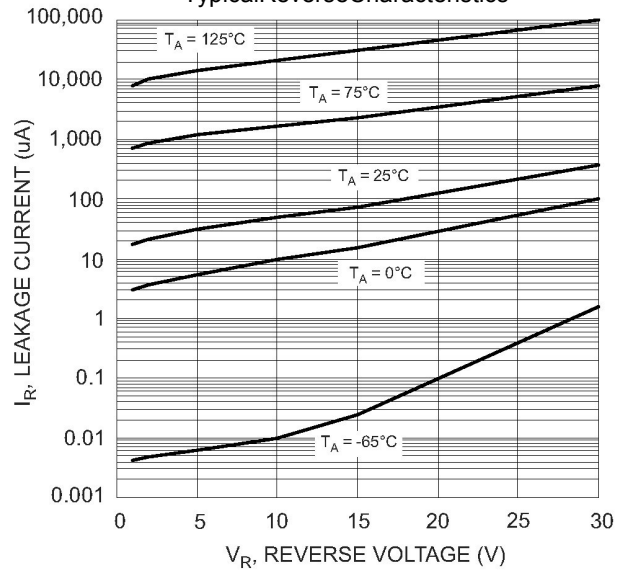


Dated:09/07/2015 Rev: 03

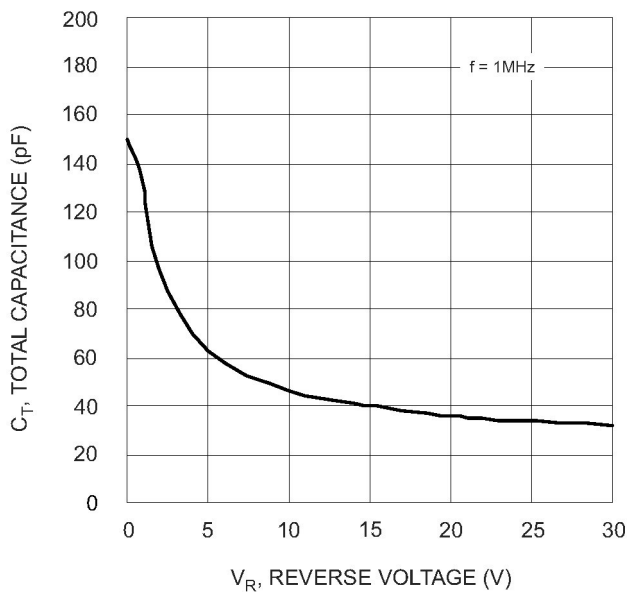
Typical Forward Characteristics



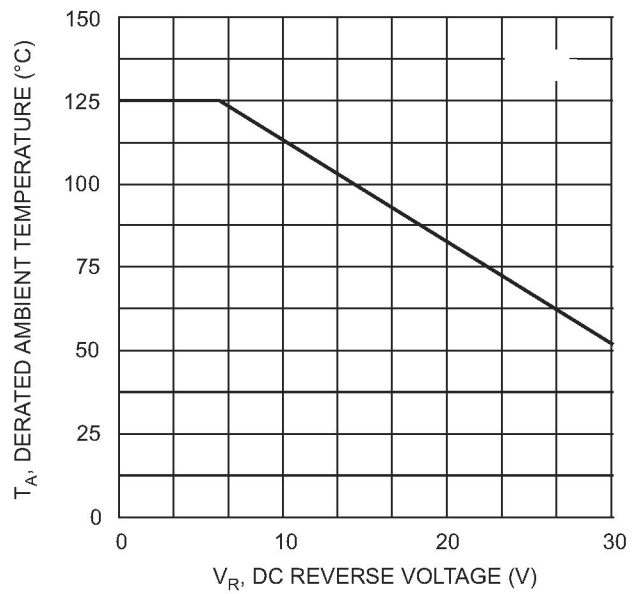
Typical Reverse Characteristics



Typical Total Capacitance



DC Forward Current Derating

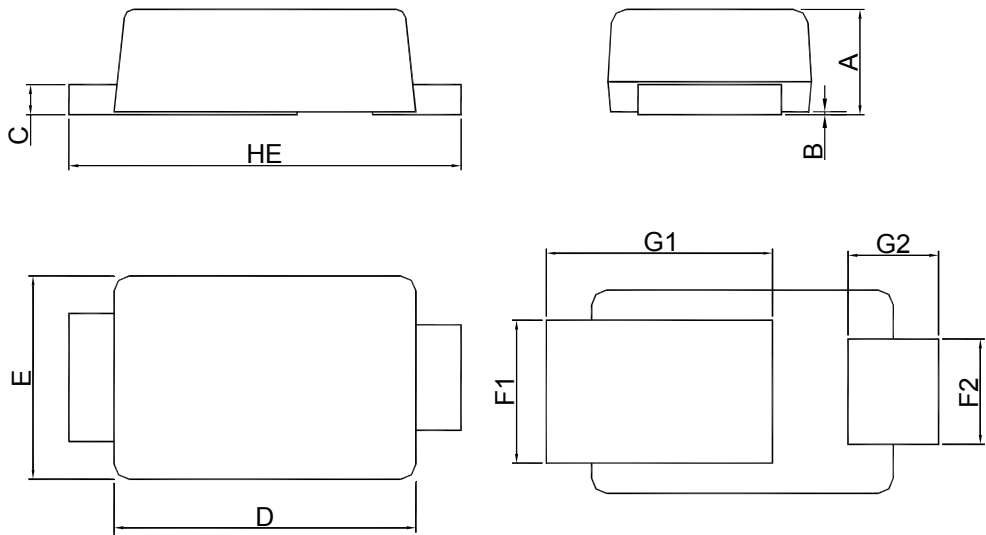


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PACKAGE OUTLINE

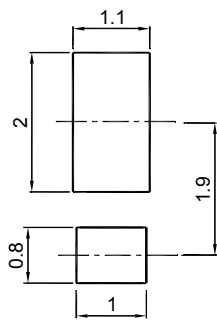
Plastic surface mounted package; 2 leads

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



SOD-323HE

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

TOP DYNAMIC

