SDB13HS

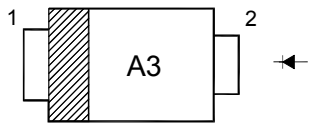
SCHOTTKY BARRIER DIODE

Features

- Low profile surface mount package
- Low power loss,high efficiency

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: A3
Simplified outline SOD-323HE and symbol

Applications

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

Absolute Maximum Ratings (T_a = 25℃)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	30	V
Forward Current	I_F	1	A
Peak Forward Surge Current (tp = 8.3 ms)	I_{FSM}	25	A
Power Dissipation [1)]	P_D	667	mW
Junction Temperature	T_J	- 40 to + 125	℃
Storage Temperature Range	T_{stg}	- 40 to + 125	℃

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

Characteristics at T_a = 25℃

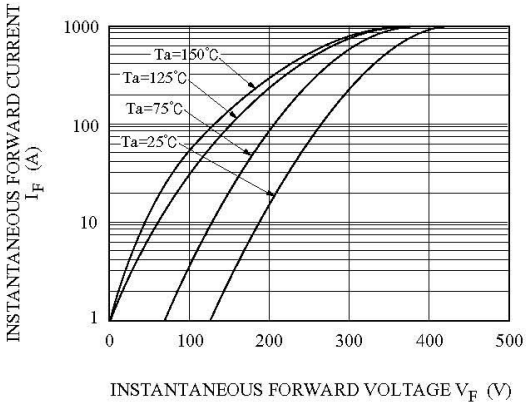
Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at I_F = 1 A	V_F	-	-	0.47	V
Reverse Current at V_R = 5 V at V_R = 30 V	I_R	- -	- -	40 200	μA
Junction Capacitance at V_R = 10 V, f = 1 MHz	C_j	-	30	-	pF

TOP DYNAMIC

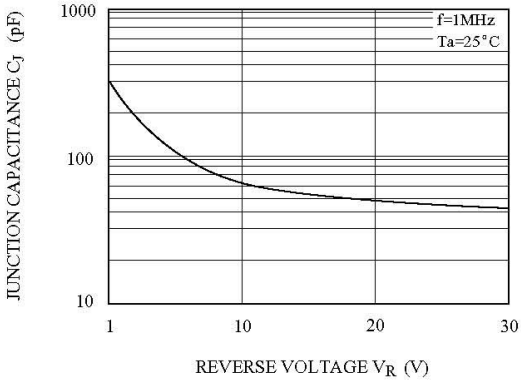
ISO14001 : 2004 Certificate No. 121505007 | ISO 9001 : 2008 Certificate No. 50114012 | OHSAS 18001 : 2007 Certificate No. 05131506006 | IECQ QC 080000 Certificate No. IECQ-HI MOODY 14.0022

Dated: 09/07/2015 Rev: 03

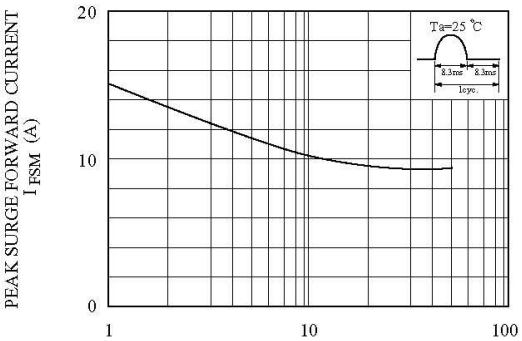
I_F - V_F



C_J - V_R



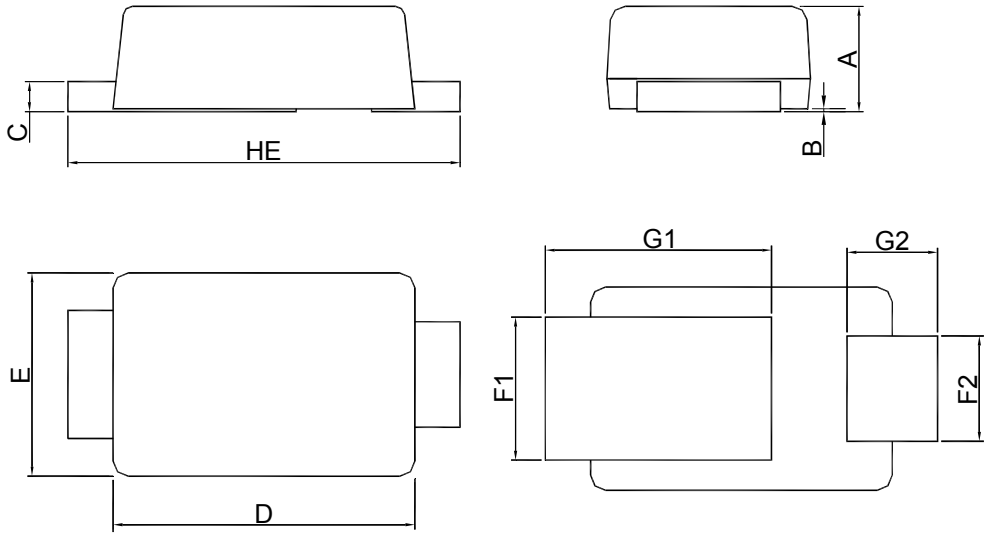
SURGE FORWARD CURRENT
(NON - REPETITIVE)



SDB13HS

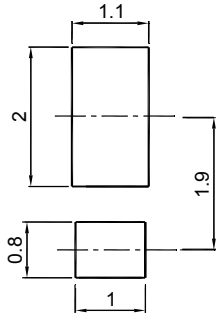
PACKAGE OUTLINE

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