SDB13LHT-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

Top View
Marking Code: A3
Simplified outline SOD-323HE and symbol
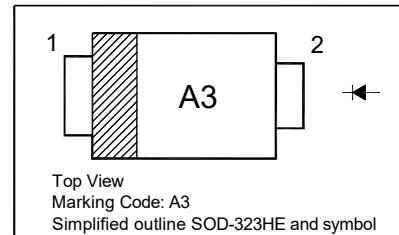
Absolute Maximum Ratings (T$_a$ = 25℃)

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
Operating Temperature Range	T$_J$	- 65 to + 125	℃
Storage Temperature Range	T$_{stg}$	- 65 to + 150	℃

Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance Junction to Ambient Air [1]	R$_{\theta JA}$	177	℃/W

[1] Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

Characteristics at T$_a$ = 25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V$_{(BR)R}$	30	-	-	V

Forward Voltage
  at I$_F$ = 0.1 A
  at I$_F$ = 0.7 A
  at I$_F$ = 1 A
	V$_F$	-
		-
		-
			-
			0.37
			-
				0.33
				-
				0.42
					V
					V
					V

Reverse Current
  at V$_R$ = 5 V
  at V$_R$ = 30 V
	I$_R$	-
		-
			-
			-
				50
				250
					µA
					µA

Junction Capacitance at V$_R$ = 10 V, f = 1 MHz	C$_j$	-	54	-	pF

SDB13LHT-HAF

Electrical characteristics curves

Fig 1. Reverse Characteristics Curve

Reverse Current (µA) vs Reverse Voltage (V)

Ta=125℃   Ta=100℃
Ta=75℃
Ta=25℃
Ta=-55℃
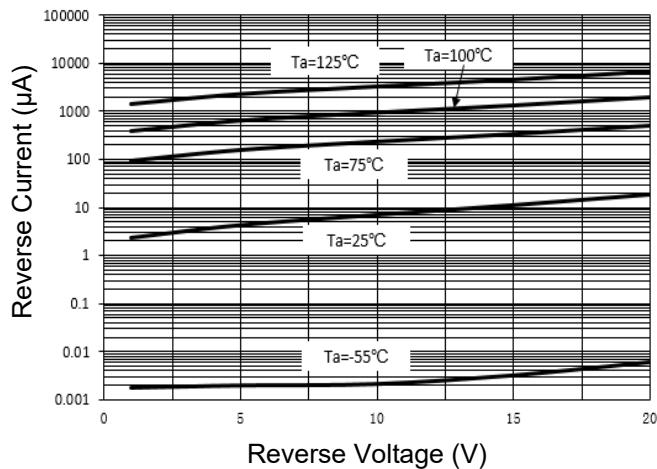
Fig 2. Forward Characteristics Curve

Forward Current (A) vs Forward Voltage (V)

Ta=125℃
Ta=100℃
Ta=75℃
Ta=25℃
Ta=-55℃

Fig 3. Junction Capacitance

Junction Capacitance (pF) vs Reverse Voltage (V)

f= 1MHz
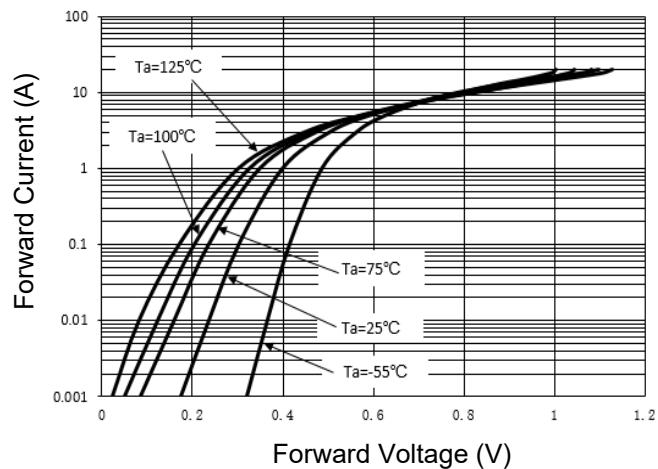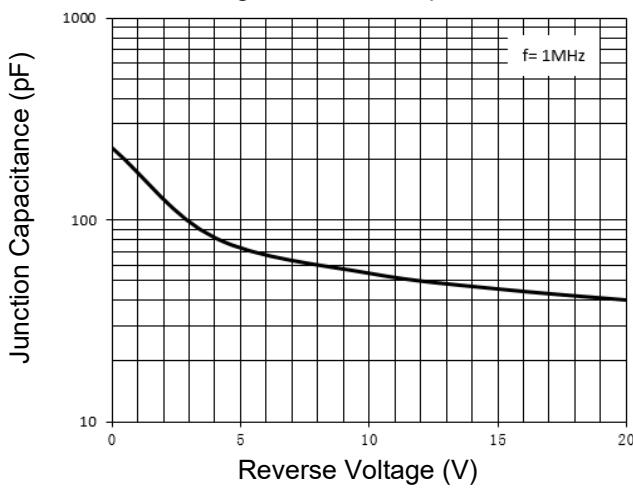
### Fig 4. Forward Current Derating Curve

Average Rectified Forward Current (A) vs Case Temperature (℃)
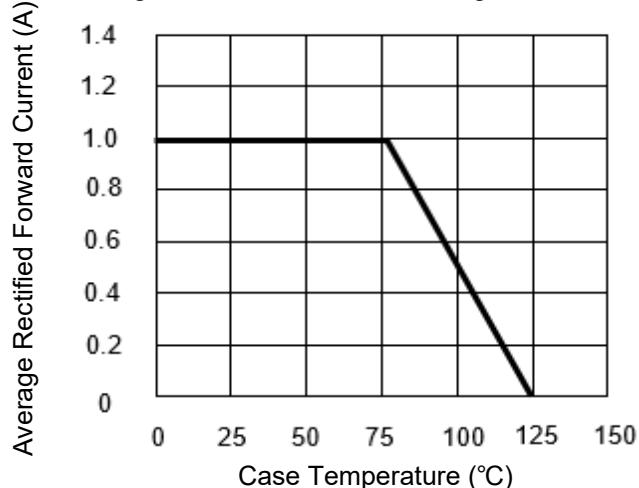
X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers *category:*

Click to view products by EIC Semiconductor *manufacturer:*

Other Similar products are found below :

MA4E2039   MA4E2508M-1112   MBR0530L-TP   MBR10100CT-BP   MBR1545CT   MMBD301M3T5G   RB160M-50TR   BAS16E6433HTMA1   BAS 3010S-02LRH E6327   BAT 54-02LRH E6327   IDL02G65C5XUMA1   NSR05F40QNXT5G   NSVR05F40NXT5G   NTE555   JANS1N6640   SB07-03C-TB-H   SK310-T   SK33A-TP   SK34B-TP   SS3003CH-TL-E   PDS3100Q-7   GA01SHT18   CRS10I30A(TE85L,QM   MA4E2501L-1290   MBRB30H30CT-1G   JANTX1N5712-1   SB007-03C-TB-E   SK33B-TP   SK35A-TP   SK38B-LTP   NTE505   NTSB30U100CT-1G   VS-6CWQ10FNHM3   CRG04(T5L,TEMQ)   ACDBA1100LR-HF   ACDBA1200-HF   ACDBA240-HF   ACDBA3100-HF   CDBQC0530L-HF   ACDBA260LR-HF   ACDBA1100-HF   MA4E2502L-1246   10BQ015-M3/5BT   10BQ060-M3/5BT   NRVB130LSFT1G   CRS08TE85LQM   PMAD1108-LF   B120Q-13-F   1N5819T-G   B0530WSQ-7-F