

# SDB32H THRU SDB320H-HAF

## Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 20 to 200 V

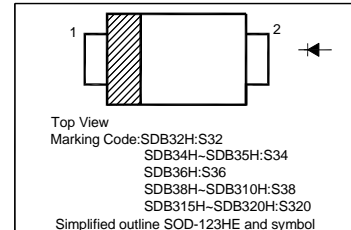
Forward Current - 3 A

### Features

- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- Halogen and Antimony Free(HAF), RoHS compliant

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SDB32H	SDB34H	SDB35H	SDB36H	SDB38H	SDB310H	SDB315H	SDB320H	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	45	60	80	100	150	200	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	45	60	80	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3								A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	80								A
Maximum Instantaneous Forward Voltage at 3 A	$V_F$	0.52	0.55	0.65	0.85	0.9			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	$I_R$	0.05								mA
		20				10				
Operating Junction Temperature Range	$T_j$	- 55 to + 125				- 55 to + 150				°C
Storage Temperature Range	$T_{stg}$	- 55 to + 150								°C

**TOP DYNAMIC**

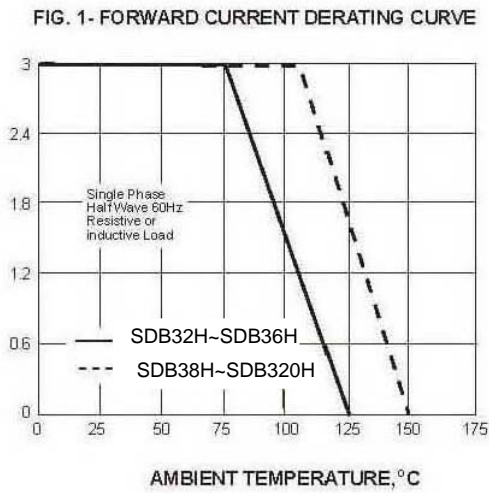


ISO14001 : 2004 Certificate No. 121505007  
 ISO 9001 : 2008 Certificate No. 50114012  
 OHSAS 18001 : 2007 Certificate No. 0513190808  
 IECQ QC 080000 Certificate No. EQ240001 NAB2

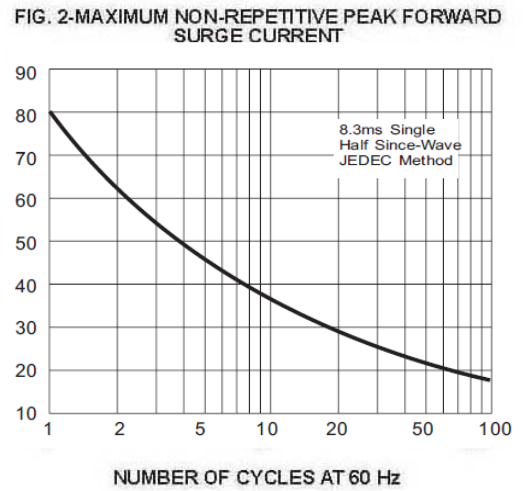
Dated: 13/01/2016 Rev: 03

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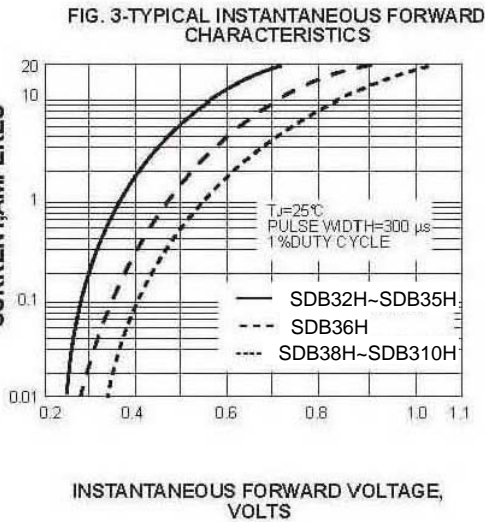
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



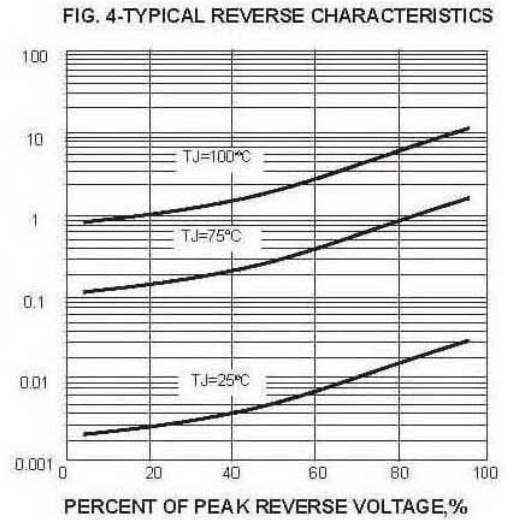
PEAK FORWARD SURGE CURRENT, AMPERES



INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES



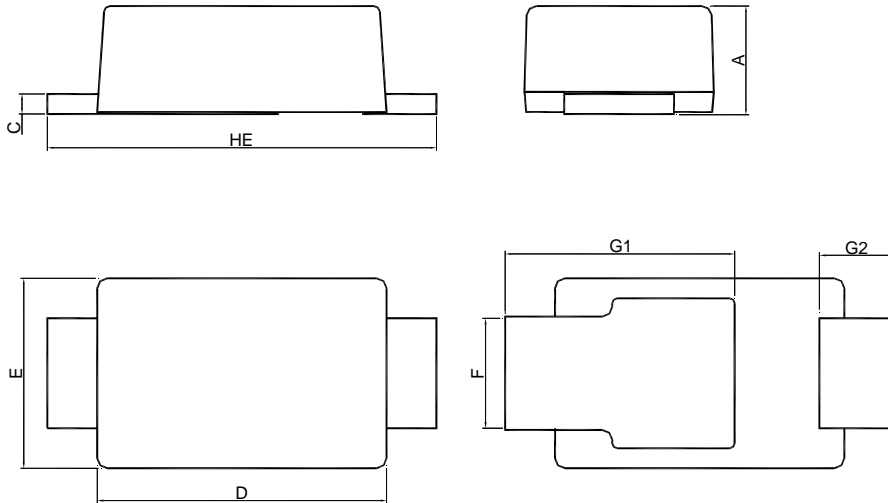
**TOP DYNAMIC**

# SDB32H THRU SDB320H-HAF

## PACKAGE OUTLINE

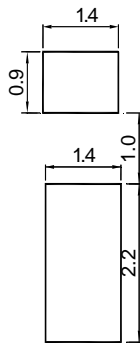
Plastic surface mounted package; 2 leads

SOD-123HE



UNIT	A	C	D	E	F	G1	G2	H <sub>E</sub>
mm	1.08 0.88	0.2 0.1	2.9 2.6	1.9 1.7	1.1 0.8	2.3 1.9	0.75 0.55	3.9 3.5

## Recommended Soldering Footprint



## Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-123HE	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

**TOP DYNAMIC**



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