

SDB32W THRU SDB320W

Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 20 to 200 V

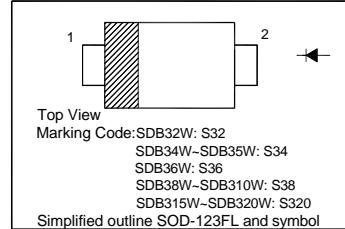
Forward Current - 3 A

Features

- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability

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 %

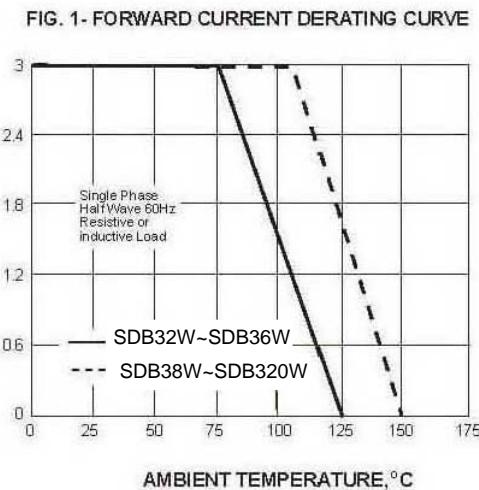
Parameter	Symbols	SDB32W	SDB34W	SDB35W	SDB36W	SDB38W	SDB310W	SDB315W	SDB320W	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	45	60	80	100	150	200	V
Maximum DC Blocking Voltage	V_{DC}	20	40	45	60	80	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$						3			A
Peak Forward 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 $T_a = 25^\circ C$ at Rated DC Blocking Voltage $T_a = 100^\circ C$	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

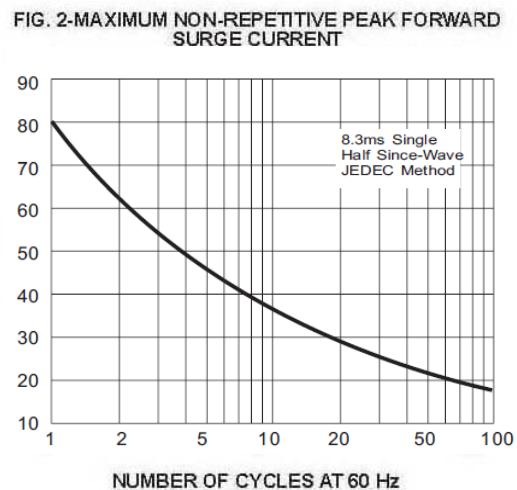


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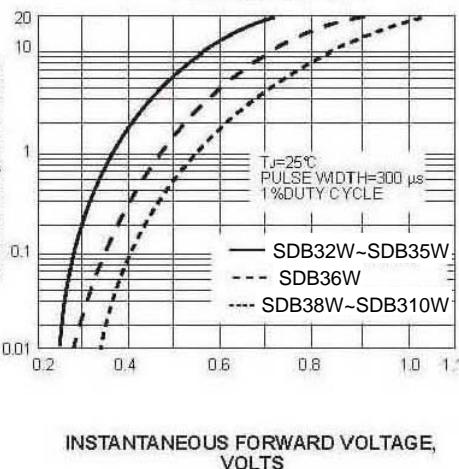
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



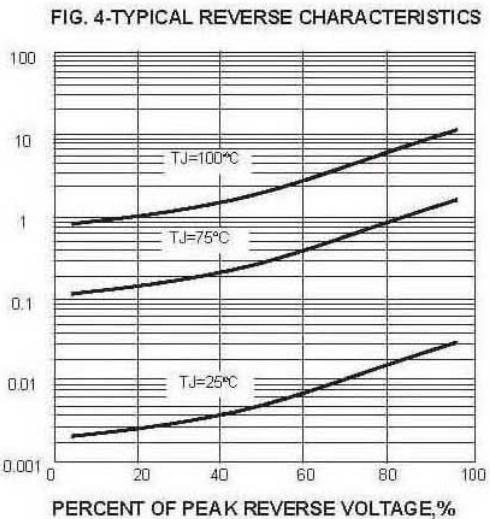
PEAK FORWARD SURGE CURRENT,
AMPERES



INSTANTANEOUS FORWARD
CURRENT,AMPERES



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



TOP DYNAMIC



ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080000
Certificate No. 121505007 Certificate No. 50114012 Certificate No. 013150006
Intertek DEKRA UL Intertek UL Intertek UL Intertek UL Intertek UL Intertek UL

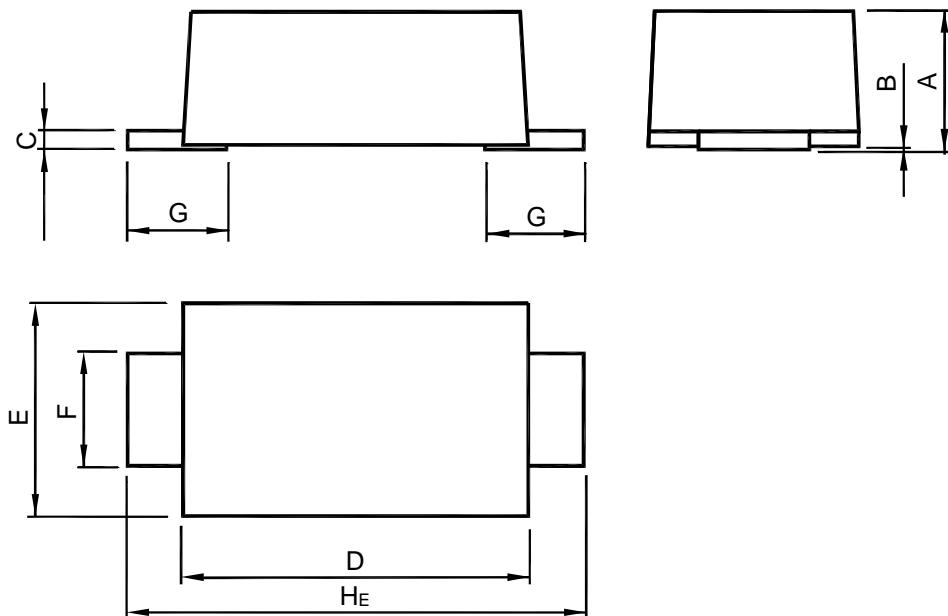
Dated: 13/01/2016 Rev: 03

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PACKAGE OUTLINE

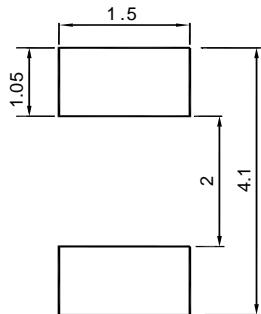
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	B	C	D	E	F	G	H _E
mm	1.08 0.88	0.1 0	0.2 0.1	2.9 2.6	1.9 1.7	1.1 0.8	0.9 0.7	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-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

TOP DYNAMIC



ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080000

Certificate No. 121505007 Certificate No. 50114012 Certificate No. 0513150006 Certificate No. ECOH11001

ISO 9001 : 2008

ISO 14001 : 2004

OHSAS 18001 : 2007

IECQ QC 080000

UL

Intertek

DEKRA

Intertek

UKAS

Intertek

Intertek