

SDB32M THRU SDB310M

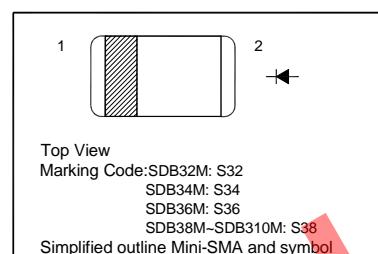
Surface Mount Schottky Barrier Rectifiers
Reverse Voltage - 20 to 100 V
Forward Current - 3 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability

PINNING

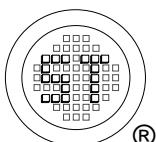
PIN	DESCRIPTION
1	Cathode
2	Anode



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	SDB32M	SDB34M	SDB36M	SDB38M	SDB310M	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	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}			110			A
Maximum Instantaneous Forward Voltage at 3 A	V_F	0.52	0.55	0.65	0.85		V
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Blocking Voltage $T_a = 100^\circ C$	I_R		0.5				mA
Operating Junction Temperature Range	T_j		- 55 to + 125		- 55 to + 150		°C
Storage Temperature Range	T_{stg}		- 55 to + 150				°C

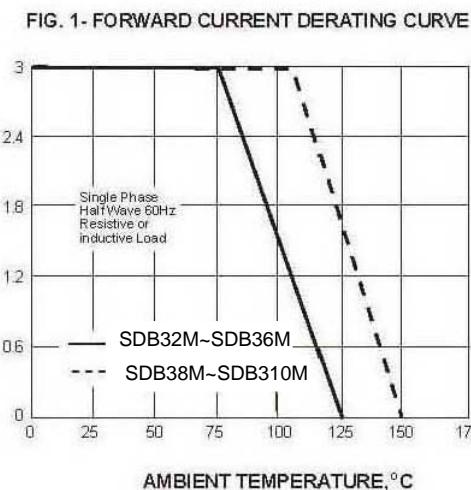


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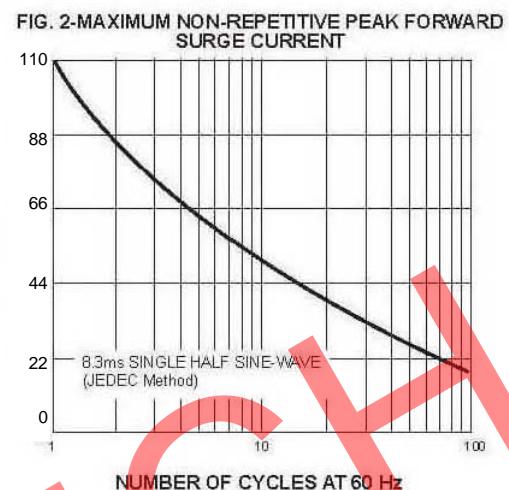


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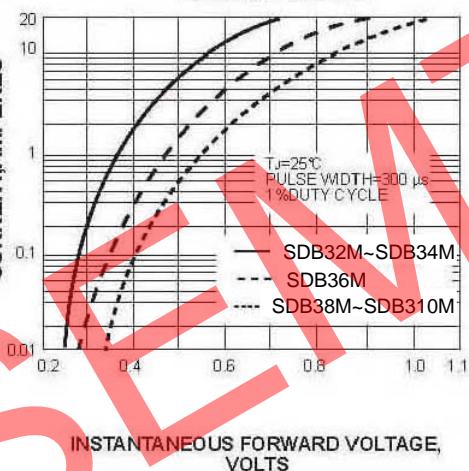
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



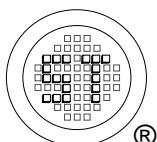
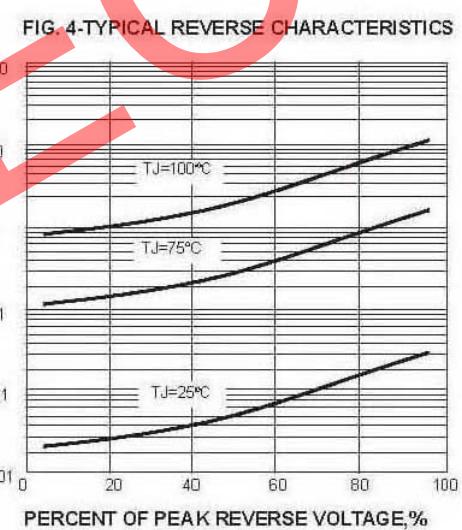
PEAK FORWARD SURGE CURRENT,
AMPERES



INSTANTANEOUS FORWARD
CURRENT,AMPERES



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



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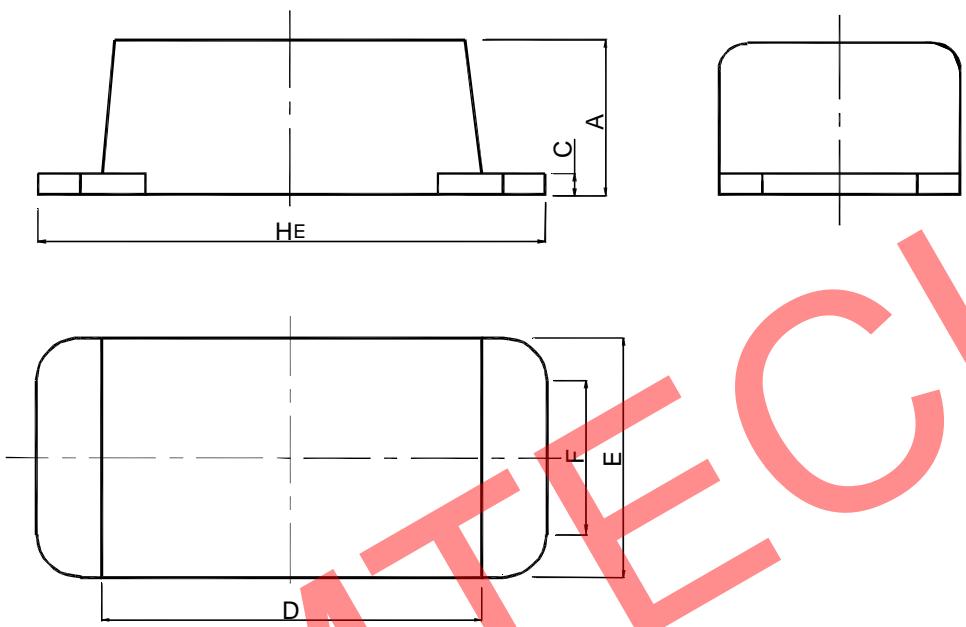
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PACKAGE OUTLINE

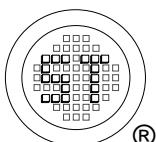
Plastic surface mounted package; 2 leads

Mini-SMA



SEMTECH

UNIT	A	C	D	E	F	H _E
mm	1.08	0.2	2.9	1.9	1.53	3.9
	0.88	0.1	2.6	1.7	1.43	3.5



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