



SS32B THRU SS3200B

Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Ampere

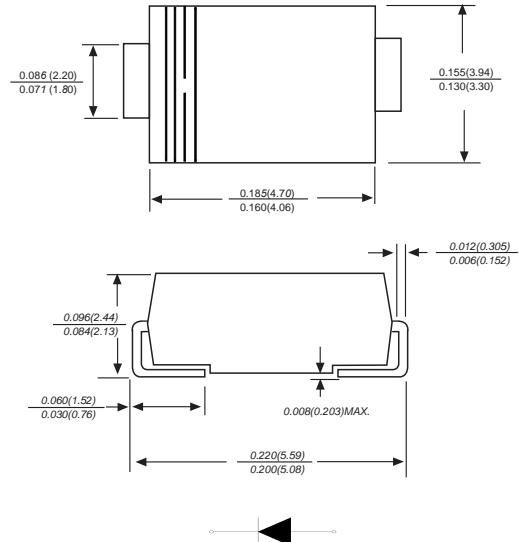
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction,majority carrier conduction
- ◆ Low power loss,high efficiency
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
250 °C/10 seconds at terminals



DO-214AA/SMB



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC DO-214AA/SMB molded plastic body
 Terminals : Solderable per MIL-STD-750, Method 2026
 Polarity : Color band denotes cathode end
 Mounting Position : Any
 Weight : 0.003 ounce, 0.095 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	SS32B	SS33B	SS34B	SS35B	SS36B	SS38B	SS310B	SS3150B	SS3200B	UNITS
Marking Code		MDD SS32B	MDD SS33B	MDD SS34B	MDD SS35B	MDD SS36B	MDD SS38B	MDD SS310B	MDD SS3150B	MDD SS3200B	
Maximum repetitive peak reverse voltage	V _{RMM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{Dc}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current at TL(see fig.1)	I _(AV)						3.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I _{FSM}						80				A
Maximum instantaneous forward voltage at 3.0A	V _F		0.55		0.70		0.85		0.95		V
Maximum DC reverse current TA=25°C at rated DCblocking voltage TA=125°C	I _R			0.5				0.3			mA
				5.0				3.0			
Typical junction capacitance (NOTE 1)	C _J		450				400				pF
Typical thermal resistance (NOTE 2)	R _{θJA}				60.0						°C/W
Operating junction temperature range	T _J				-55 to +150						°C
Storage temperature range	T _{STG}				-55 to +150						°C

Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B.mounted with 2.0x2.0"(5.0x5.0cm) copperpad areas.

3.The typical data above is for reference only.



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Typical Characteristics

Fig.1 Forward Current Derating Curve

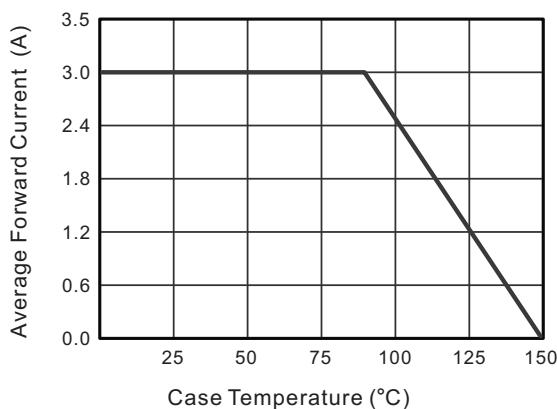


Fig.2 Typical Reverse Characteristics

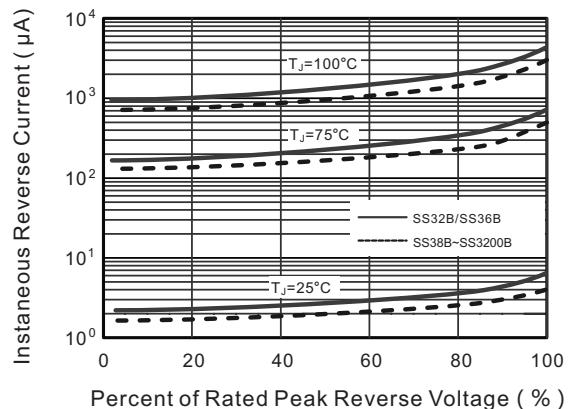


Fig.3 Typical Forward Characteristic

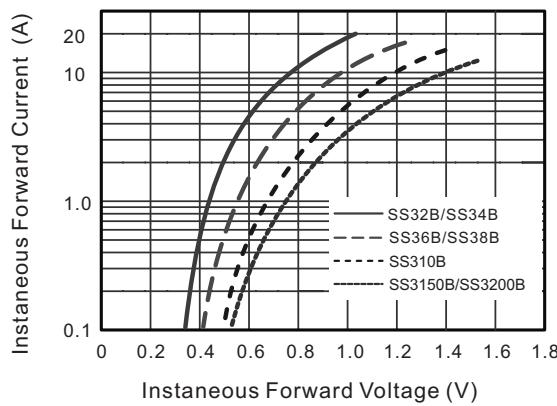


Fig.4 Typical Junction Capacitance

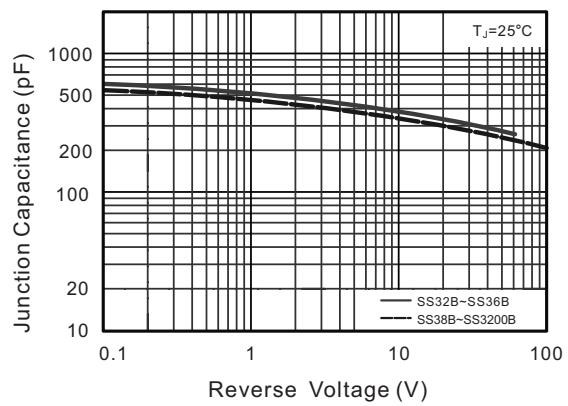


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

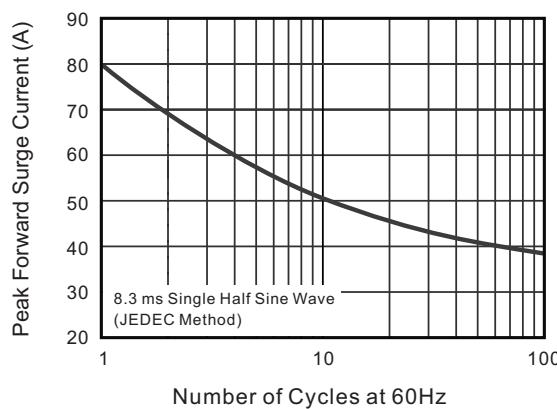
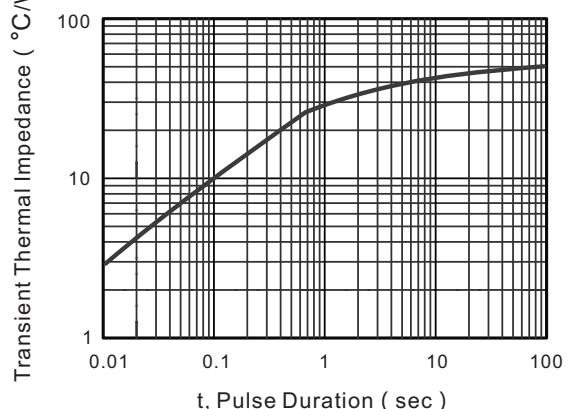


Fig.6- Typical Transient Thermal Impedance



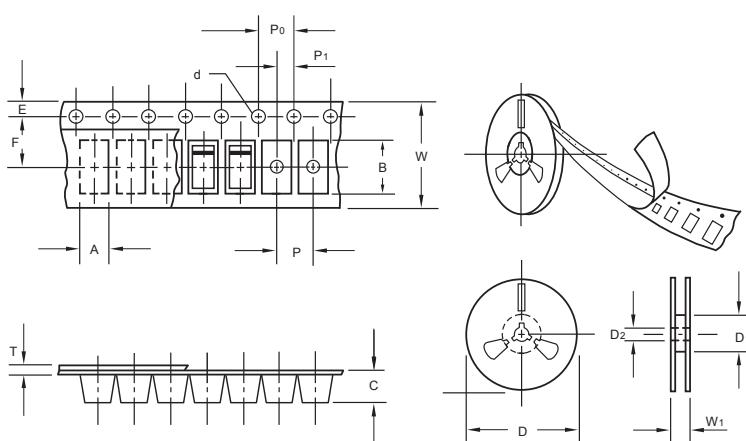
The curve above is for reference only.



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Packing information



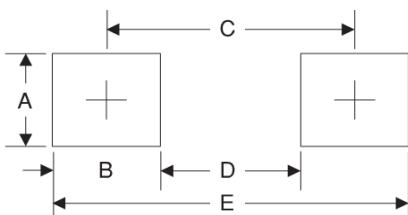
Item	Symbol	Tolerance	SMB
Carrier width	A	0.1	3.81
Carrier length	B	0.1	5.41
Carrier depth	C	0.1	2.42
Sprocket hole	d	0.05	1.50
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D ₁	min	50.00
Feed hole diameter	D ₂	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	5.55
Punch hole pitch	P	0.1	8.00
Sprocket hole pitch	P ₀	0.1	4.00
Embossment center	P ₁	0.1	2.00
Overall tape thickness	T	0.1	0.30
Tape width	W	0.3	12.00
Reel width	W ₁	1.0	12.30

Note: Devices are packed in accordance with EIA standard RS-481-A and specifications listed above.

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (mm)	BOX (pcs)	INNER BOX (mm)	REEL DIA, (mm)	CARTON SIZE (mm)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
SMB	13"	3,000	4.0	10,000	190*190*41	330	365*365*360	80,000	14.0

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	2.8	0.110
B	2.4	0.094
C	4.6	0.181
D	2.2	0.086
E	7.0	0.276

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