

Features

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

Mechanical Data

Case : JEDEC DO-214AA/SMB molded plastic body

Terminals : Solderable per MIL-STD-750,

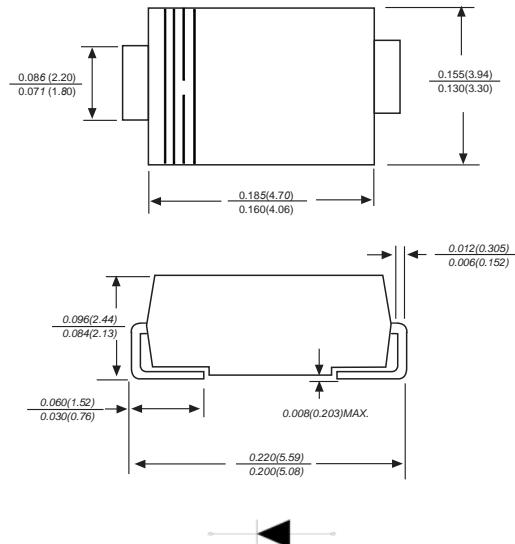
Method 2026

Polarity : Color band denotes cathode end

Mounting Position : Any

Weight : 0.003 ounce, 0.095 grams

DO-214AA/SMB



Dimensions in inches and (millimeters)

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		SS32B	SS33B	SS34B	SS35B	SS36B	SS38B	SS310B	SS3150B	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 on rated 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 DC blocking voltage TA=125°C	I _R	0.5				0.3				mA					
Typical junction capacitance (NOTE 1)	C _J	450		400				60.0			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.

Typical Characteristics

Fig.1 Forward Current Derating Curve

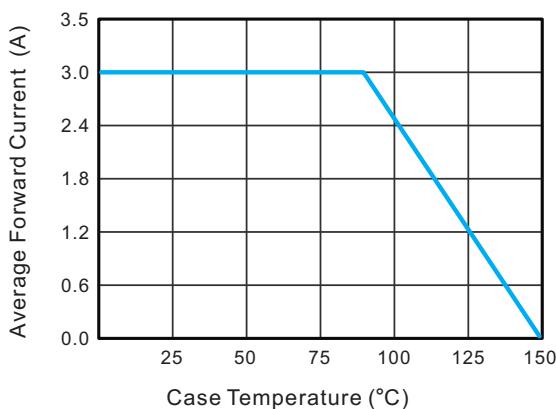


Fig.2 Typical Reverse Characteristics

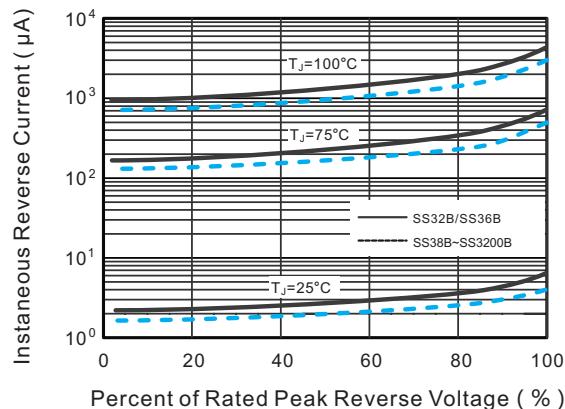


Fig.3 Typical Forward Characteristic

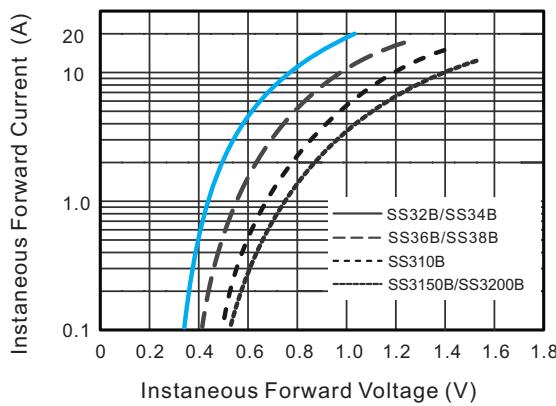


Fig.4 Typical Junction Capacitance

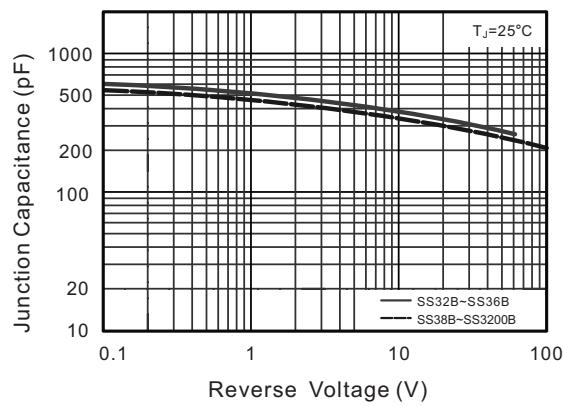


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

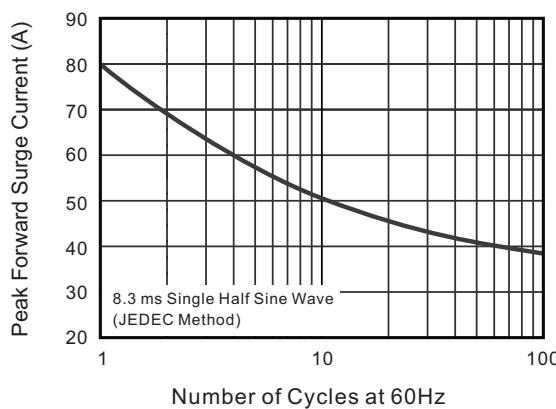
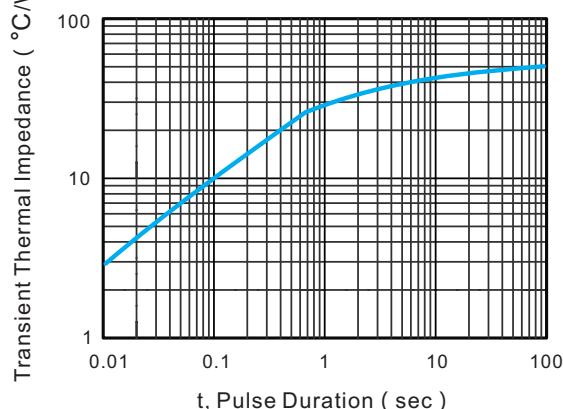
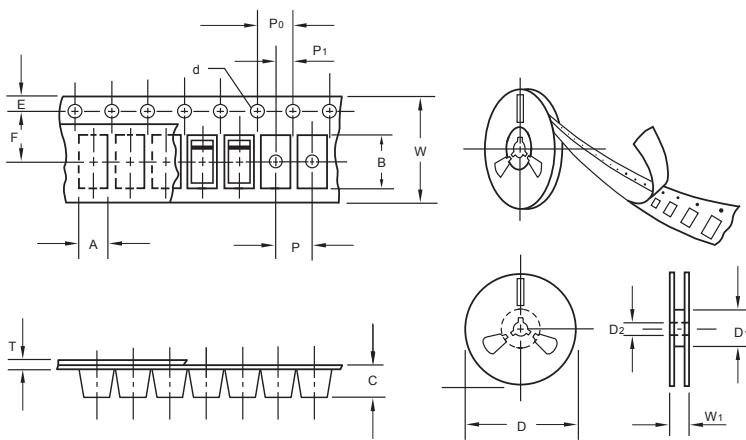


Fig.6- Typical Transient Thermal Impedance



Packing information



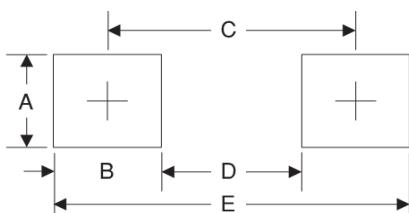
Item	Symbol	Tolerance	unit:mm
Carrier width	A	0.1	3.81
Carrier length	B	0.1	5.41
Carrier depth	C	0.1	2.42
Sprocket hole	d	0.05	1.50
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D1	min	50.00
Feed hole diameter	D2	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	5.55
Punch hole pitch	P	0.1	8.00
Sprocket hole pitch	P0	0.1	4.00
Embossment center	P1	0.1	2.00
Overall tape thickness	T	0.1	0.30
Tape width	W	0.3	12.00
Reel width	W1	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