

Features

- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability

Classification Rating 94V-0



Mechanical Data

- Case: Molded plastic SMB
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SS32B	SS33B	SS34B	SS345B	SS35B	SS36B	SS38B	SS310B	SS315B	SS320B	SS325B	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	V _{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @T _L =100°C	I _{FAV}	3.0											A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80											A
Forward Voltage @IF=3.0A (Note 1)	V _{FM}	0.55				0.7		0.85		0.92		0.95	V
Peak Reverse Current @T _A =25 °C	I _R	0.1						0.05					mA
At Rated DC Blocking Voltage @T _A =100 °C		10						5					
I ² t Rating for fusing (t <8.3ms)	I ² t	26.56											A ² s
Typical Junction Capacitance (Note 2)	C _J	110						70					pF
Typical Thermal Resistance	R _{θJA}	70											°C/W
Operating Temperature Range	T _J	-55 to+150											°C
Storage Temperature Range	T _{STG}	-55 to +150											°C

Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

Fig. 1 Forward Current Derating Curve

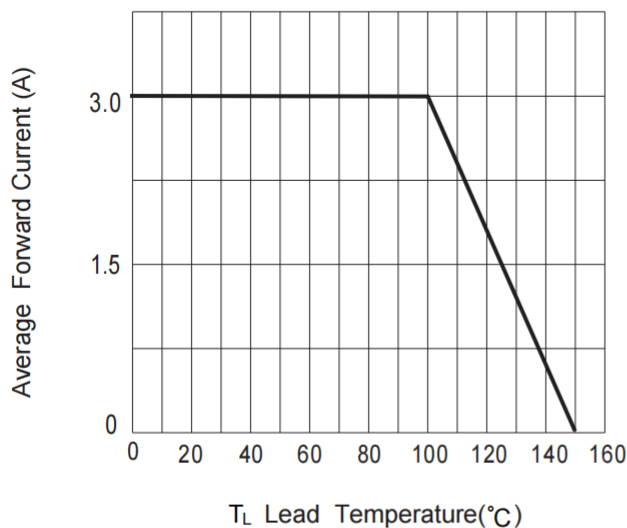


Fig. 2 Typ. Forward Characteristics

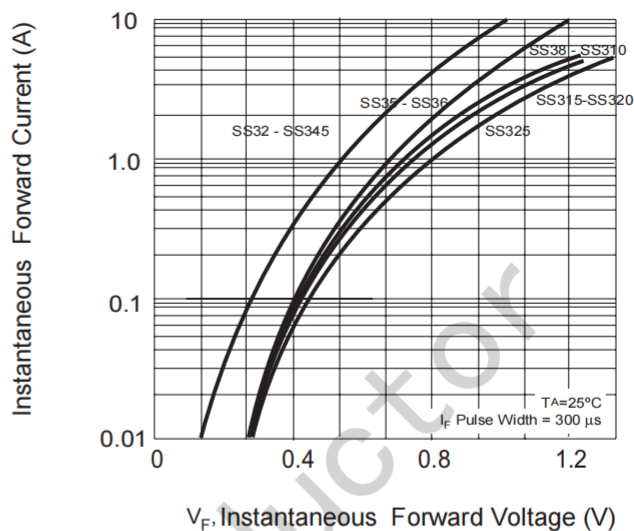


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

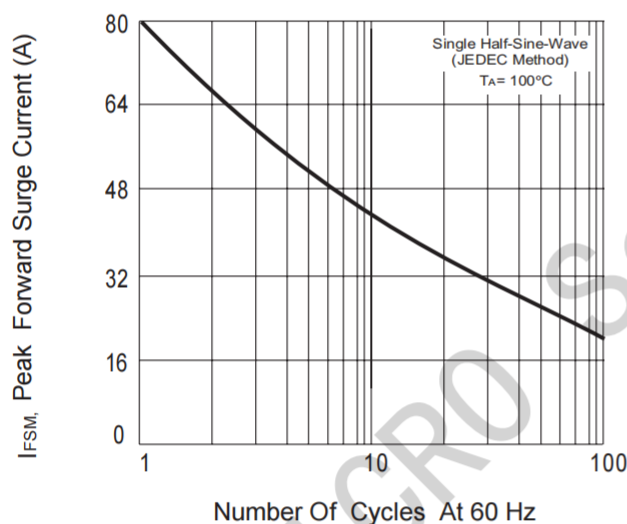


Fig.4 Typical Reverse Characteristics

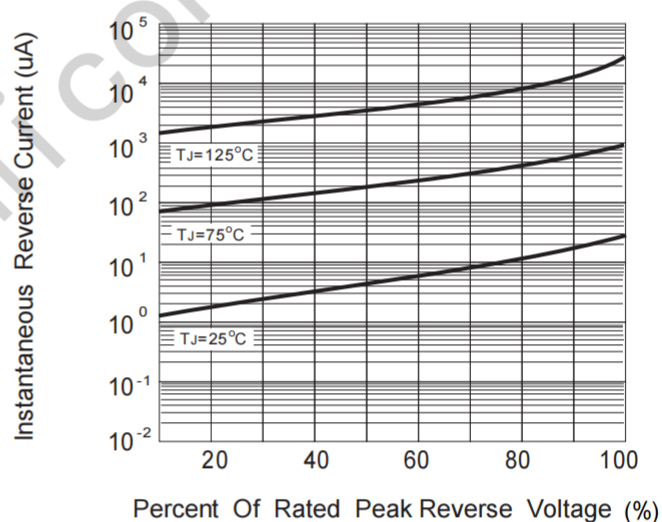
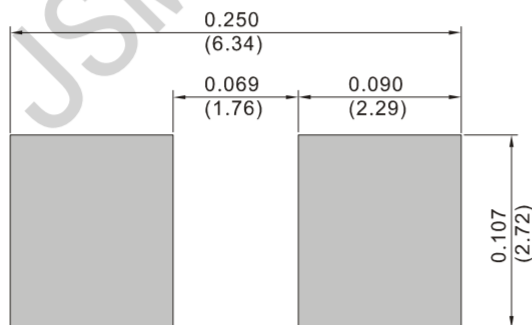


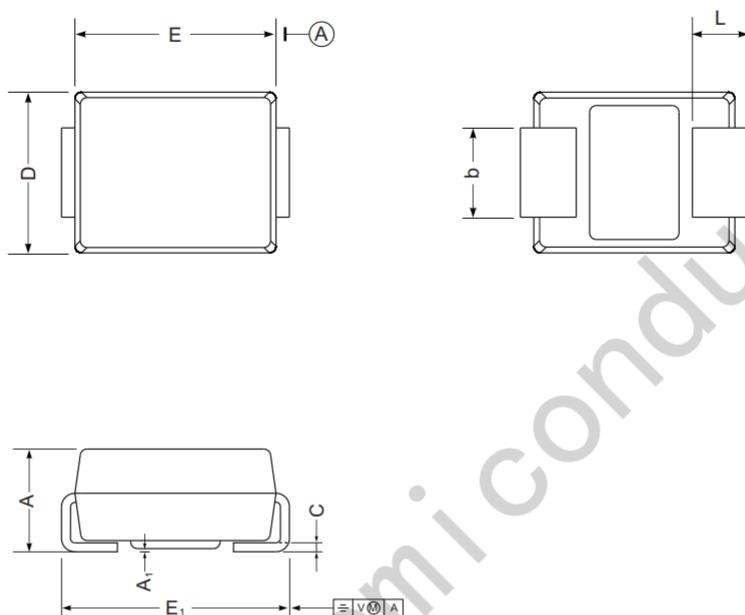
Fig.5 Mounting PAD Layout



Package Information

SMB

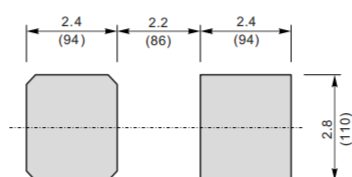
Plastic surface mounted package; 2 leads



SMB mechanical data

UNIT		A	E	D	E ₁	A ₁	L	C	b
mm	max	2.44	4.70	3.94	5.59	0.20	1.5	0.305	2.11
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.91
mil	max	96	185	155	220	7.9	59	12	83
	min	84	160	130	200	2.0	32	6	75

The recommended mounting pad size



Unit : $\frac{\text{mm}}{(\text{mil})}$