

Description

The SS32B~SS320B is surface mount schottky barrier diode, SMB package.

Applications

- General purpose.

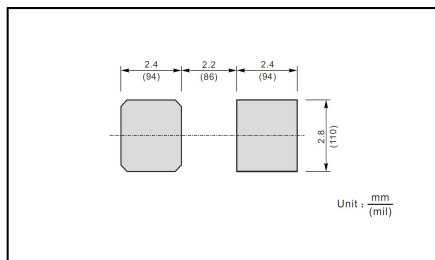
Features

- Reverse voltage : 20 to 200V
- Forward current: 3.0A
- Glass passivated chip junction
- Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications.
- Halogen-free productt

Equivalent Circuit & Pinning



The recommended mounting pad size



PIN	DESCRIPTION
1	Cathode
2	Anode

Marking

- See Marking Instructions.

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating								Unit
		SS32B	SS34B	SS36B	SS38B	SS310B	SS312B	SS315B	SS320B	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0								A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	80								A
Typical Junction Capacitance	C _j	450				400				pF
Typical Thermal Resistance ¹⁾	R _{θJA}	60								°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55~+150								°C

Note:

1) P.C.B. mounted with 2.0 X 2.0" (5 X5 cm) copper pad areas

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating							Unit	
			SS32B	SS34B	SS36B	SS38B	SS310B	SS312B	SS315B		SS320B
Maximum Instantaneous Forward Voltage	V _F	I _F =3.0A	0.55		0.70		0.85		0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _a =25°C	0.5			0.3					mA
		T _a =100°C	5.0			3.0					mA

Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

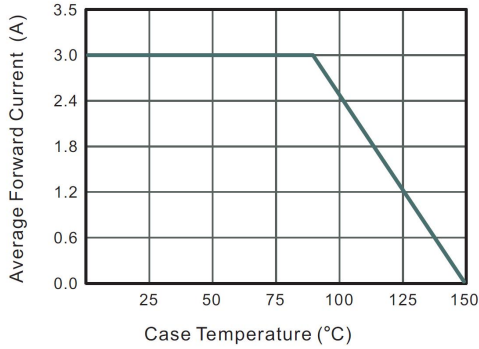


Fig.2 Typical Reverse Characteristics

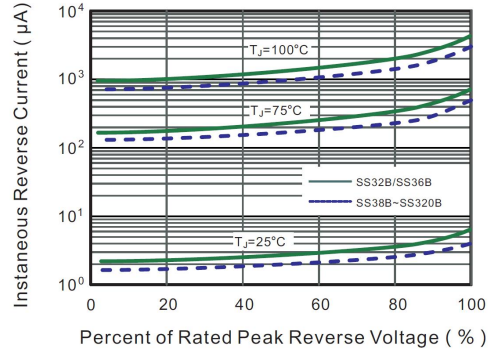


Fig.3 Typical Forward Characteristic

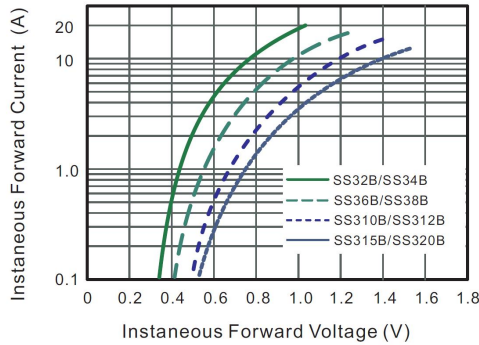


Fig.4 Typical Junction Capacitance

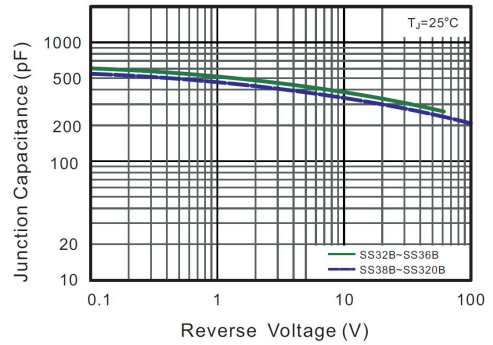


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

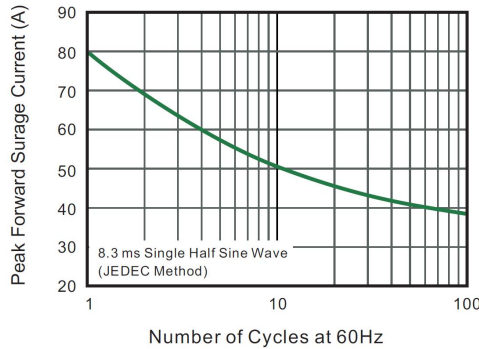
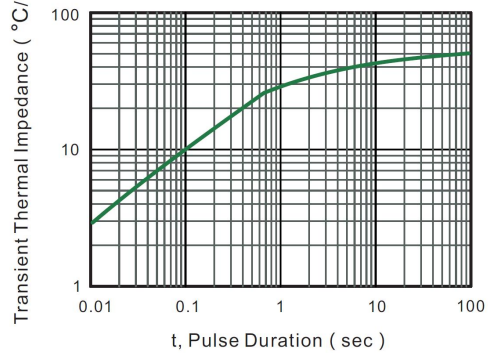


Fig.6- Typical Transient Thermal Impedance



Marking instructions



Note:

SS34 : Product Type Code

**** : Lot No. Code , The 1st * means:YM Code , The last 3 * means:little Lot No Code

Marking

Type number	Marking code
SS32B	SS32
SS34B	SS34
SS36B	SS36
SS38B	SS38
SS310B	SS310
SS312B	SS312
SS315B	SS315
SS320B	SS320

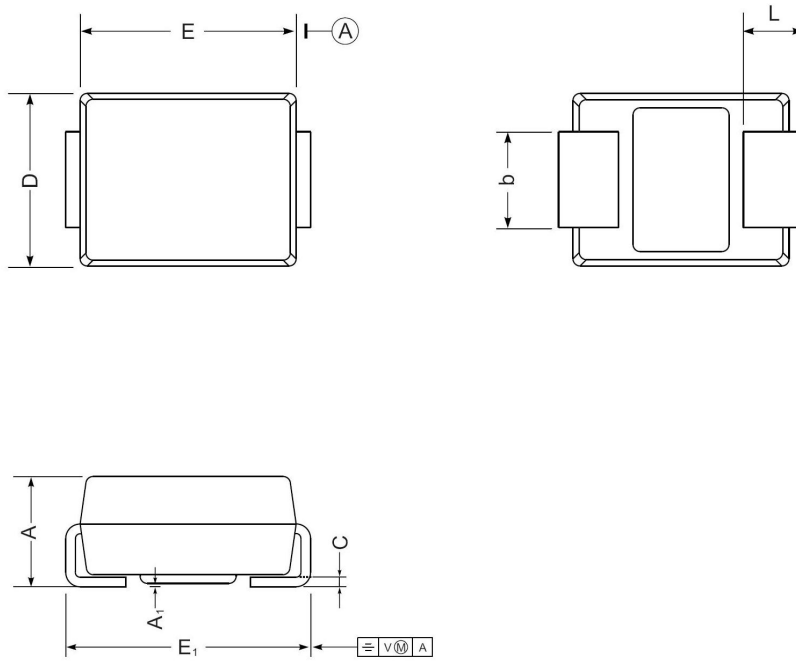
Packaging SPEC.

REEL

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SMB	3000	5	15000	5	75000	7" ×11	185X180X105	390X385X205

Package Dimensions

SMB



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	2.2
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.9
mil	max	96	185	155	220	7.9	59	12	87
	min	84	160	130	200	2.0	32	6	75