

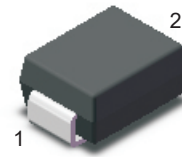


SS32B-PJ~SS320B-PJ Schottky Barrier Rectifiers

Features

- For surface mount applications
- High forward surge current capability
- Low profile package
- High efficiency
- Metal silicon junction, majority carriers conduction

SMB



Marking Code :

SS32B-PJ: SS32
 SS34B-PJ: SS34
 SS36B-PJ: SS36
 SS38B-PJ: SS38
 SS310B-PJ: SS310
 SS312B-PJ: SS312
 SS315B-PJ: SS315
 SS320B-PJ: SS320

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbol	SS32B-PJ	SS34B-PJ	SS36B-PJ	SS38B-PJ	SS310B-PJ	SS312B-PJ	SS315B-PJ	SS320B-PJ	Unit
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, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	80								A
Maximum Instantaneous Forward Voltage at 3 A	V_F	0.55		0.70		0.85		0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25\text{ }^\circ\text{C}$ $T_A = 100\text{ }^\circ\text{C}$	I_R	0.5				0.3				mA
		5				3				
Typical Junction Capacitance ^{Note1}	C_J	450				400				pF
Typical Thermal Resistance ^{Note2}	$R_{\theta JA}$	60								$^\circ\text{C/W}$
Junction Temperature	T_J	150								$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150								$^\circ\text{C}$

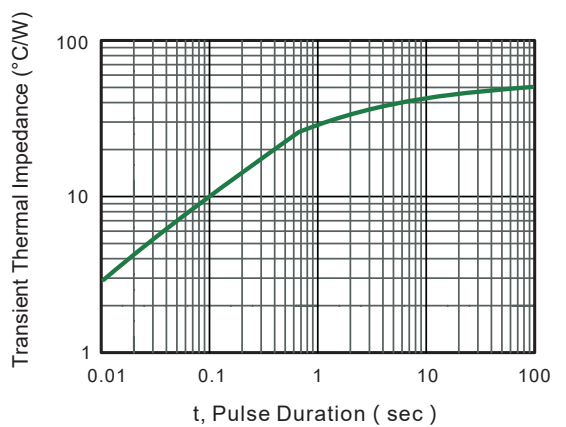
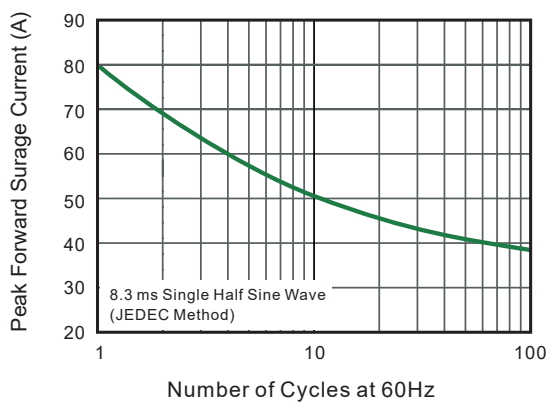
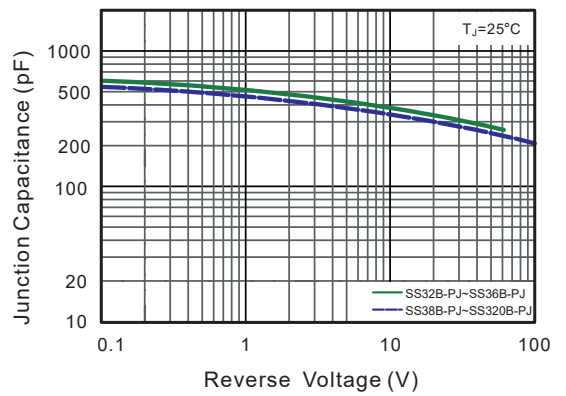
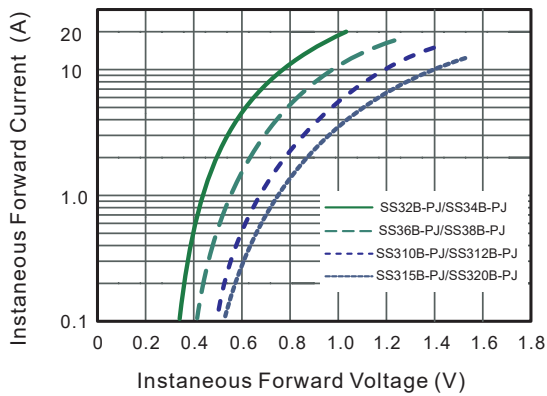
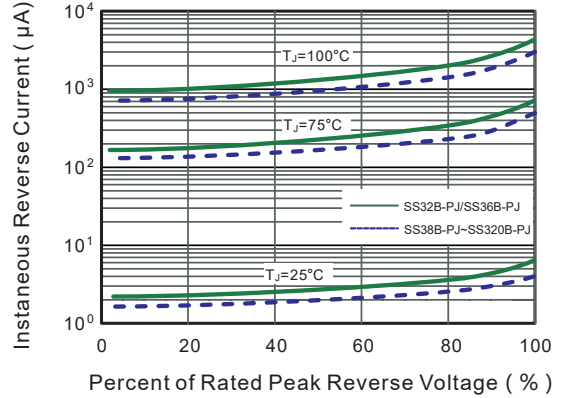
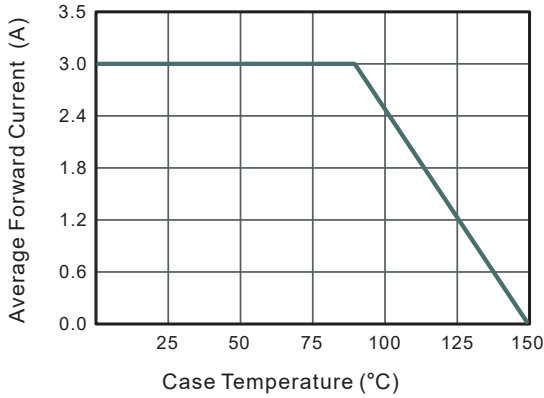
Note:

1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



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Typical Characteristic Curves



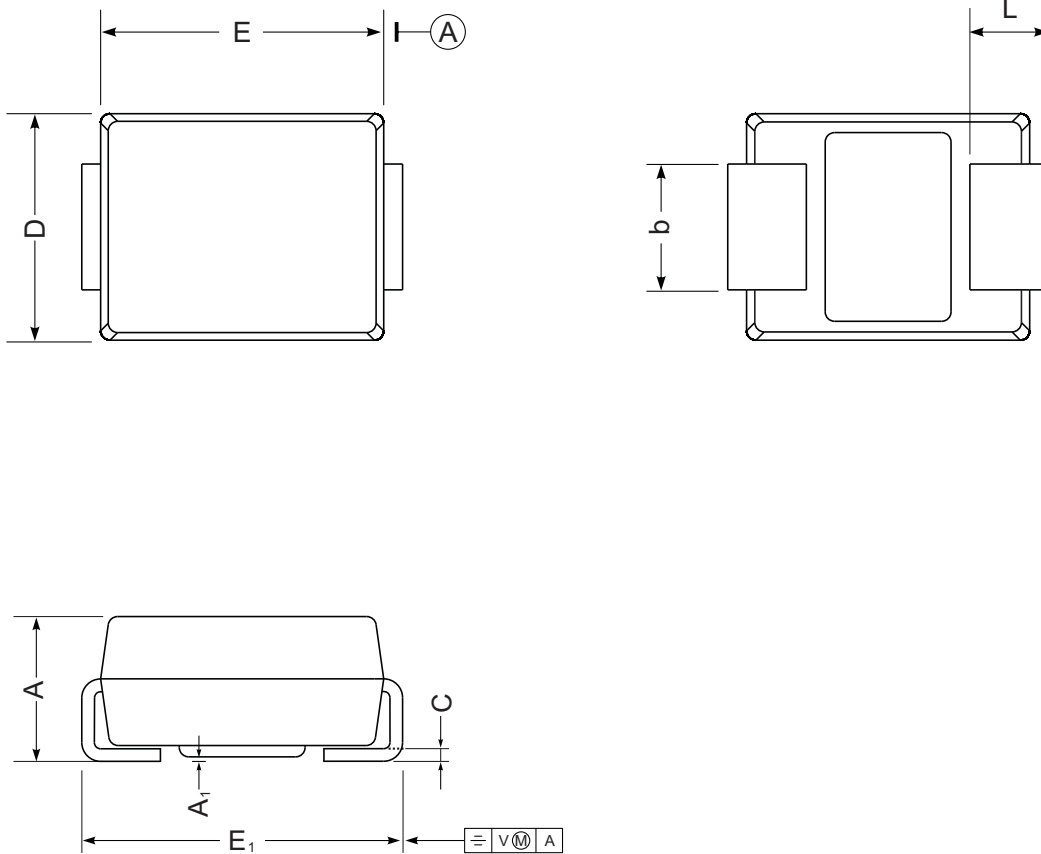


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Package Outline

SMB

Dimensions in mm



UNIT		A	E	D	E1	A1	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