

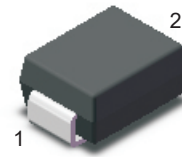


# SS82B-PJ~SS820B-PJ Schottky Barrier Rectifiers

## Features

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

## SMB



## Marking Code :

SS82B-PJ: S82B  
 SS84B-PJ: S84B  
 SS86B-PJ: S86B  
 SS88B-PJ: S88B  
 SS810B-PJ: S810B  
 SS812B-PJ: S812B  
 SS815B-PJ: S815B  
 SS820B-PJ: S820B

## 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	SS82B-PJ	SS84B-PJ	SS86B-PJ	SS88B-PJ	SS810B-PJ	SS812B-PJ	SS815B-PJ	SS820B-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	$I_{F(AV)}$	8								A	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	150								A	
Maximum Instantaneous Forward Voltage at 8 A	$V_F$	0.45	0.55	0.70	0.85					V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25\text{ }^\circ\text{C}$ $T_A = 100\text{ }^\circ\text{C}$	$I_R$	1.0					50				mA
Typical Junction Capacitance <sup>Note1</sup>	$C_J$	900			700					pF	
Typical Thermal Resistance <sup>Note2</sup>	$R_{\theta JA}$	50								$^\circ\text{C/W}$	
Junction Temperature Range	$T_J$	-55 to +150								$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$	-55 to +150								$^\circ\text{C}$	

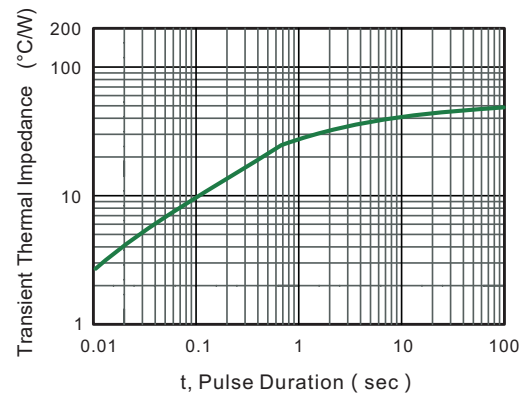
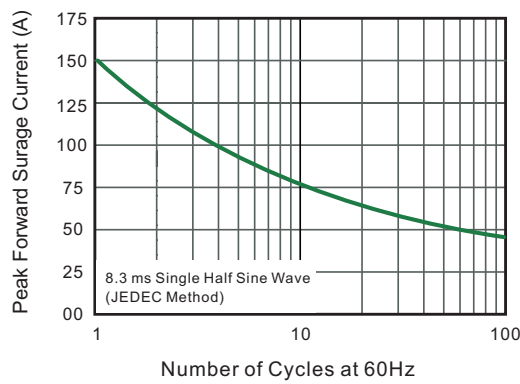
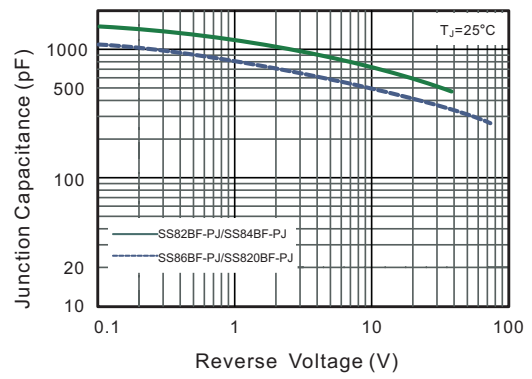
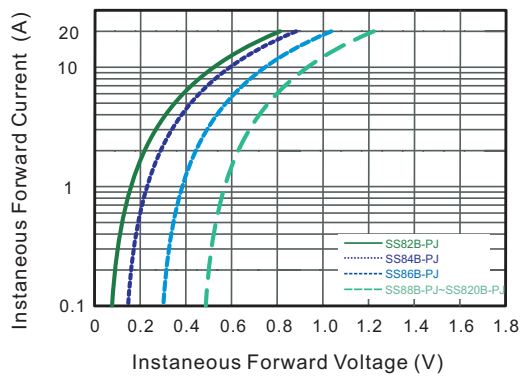
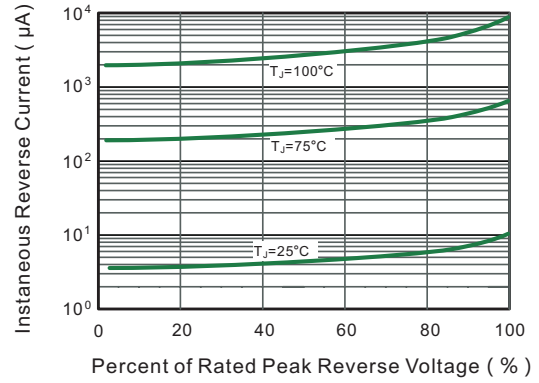
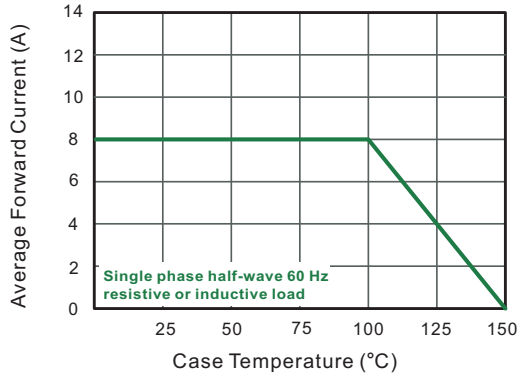
## Note:

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



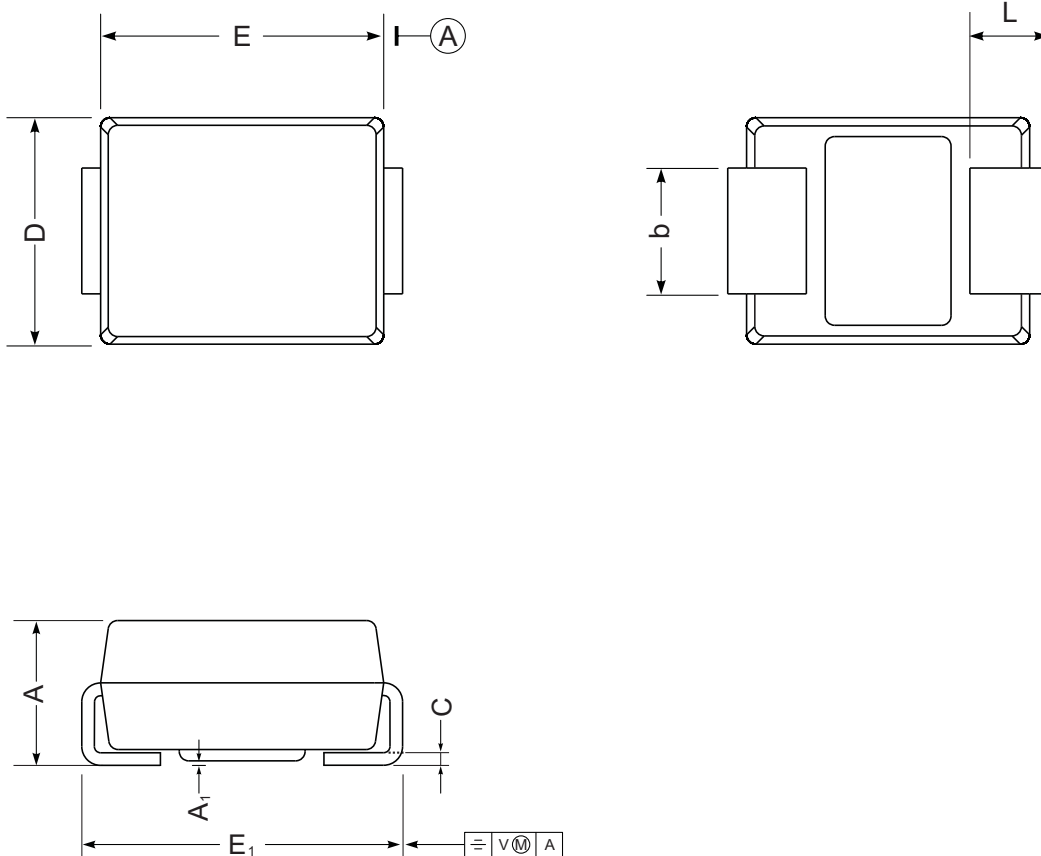


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## Package Outline

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