



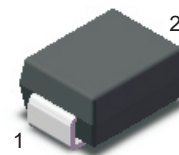
S3AB-PJ~S3MB-PJ

Surface Mount General Purpose Silicon Rectifiers

Features

- Glass Passivated Chip Junction
- For Surface Mounted Applications
- Low profile package
- Easy to Pick and Place

SMB



1.Cathode —|<— 2.Anode

Marking Code:

S3AB-PJ: S3A
S3BB-PJ: S3B
S3DB-PJ: S3D
S3GB-PJ: S3G
S3JB-PJ: S3J
S3KB-PJ: S3K
S3MB-PJ: S3M

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	Symbols	S3AB-PJ	S3BB-PJ	S3DB-PJ	S3GB-PJ	S3JB-PJ	S3KB-PJ	S3MB-PJ	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	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	I _{FSM}	90							A
Maximum Instantaneous Forward Voltage at 3 A	V _F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A = 25 °C T _A = 125 °C	I _R	5 100							μA
Typical Junction Capacitance ^{Note1}	C _j	35							pF
Typical Thermal Resistance ^{Note2}	R _{θJA}	48							°C/W
	R _{θJC}	16							
Junction Temperature	T _J	150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Note:

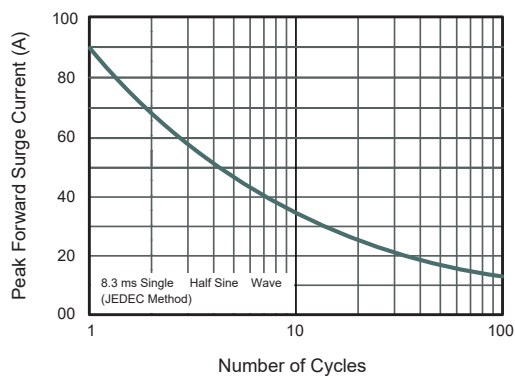
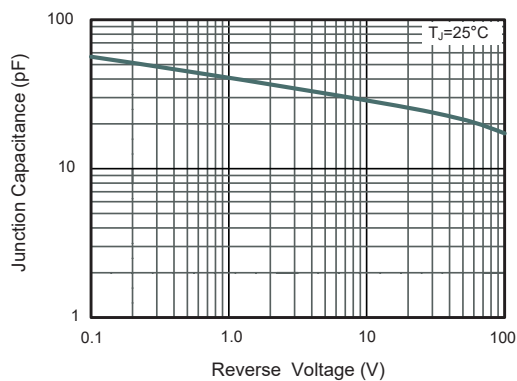
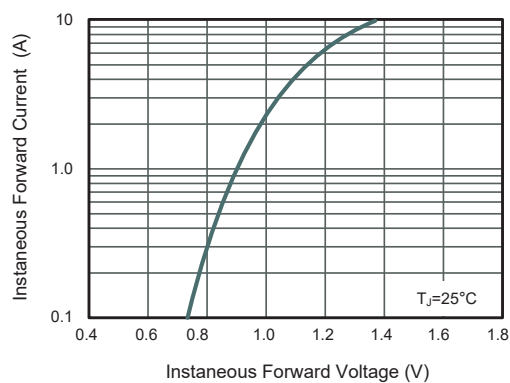
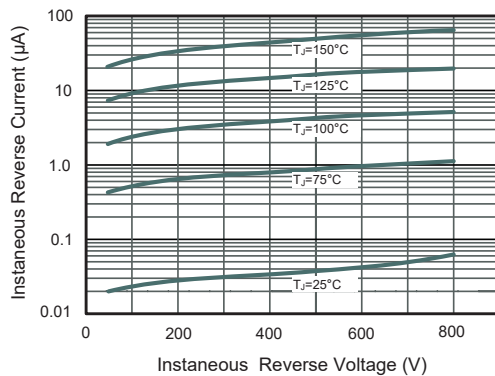
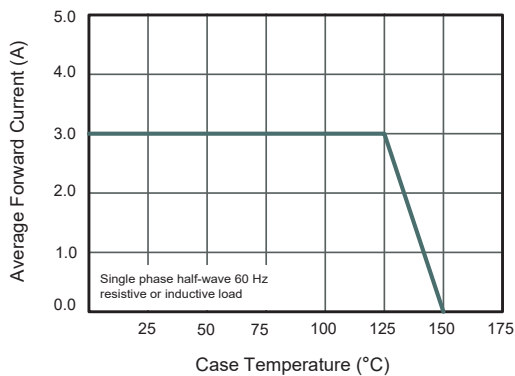
1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



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Typical Characteristic Curves





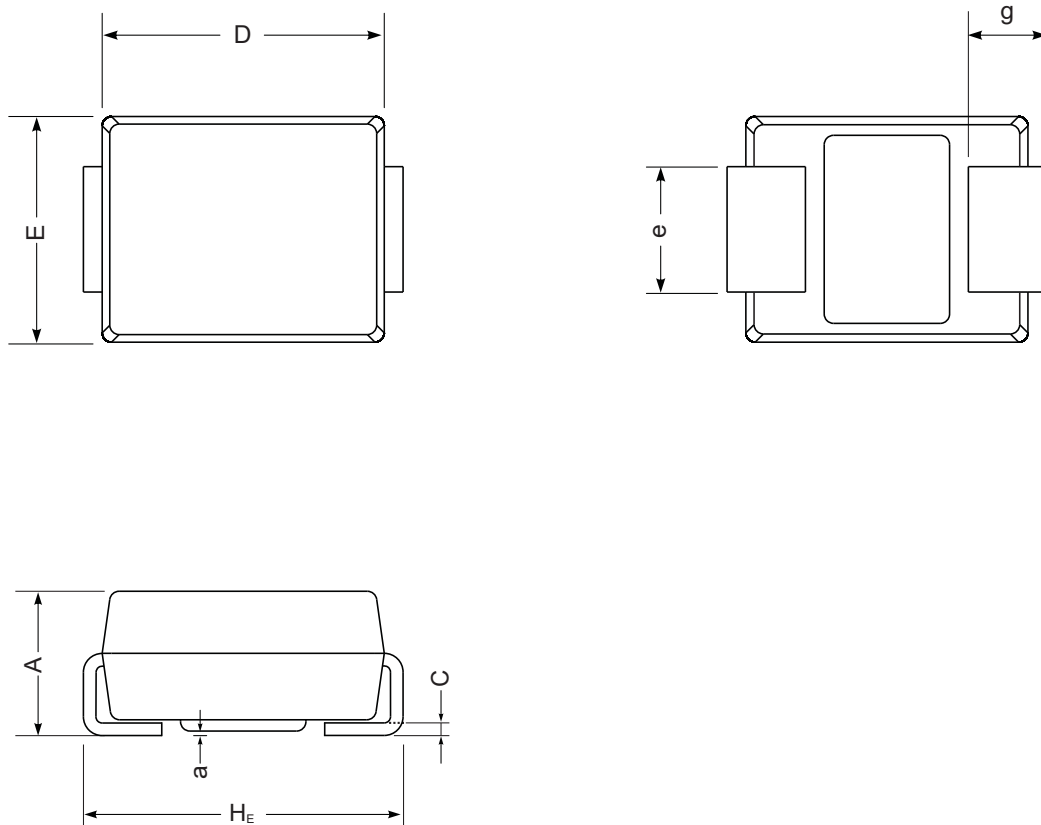
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Package Outline

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