S3AB - S3MB

Voltage Range - 50 to 1000 V
Forward Current - 3 Ampere

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIERS

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code : S3A~S3M
Simplified outline SMB and symbol

MECHANICAL DATA

- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.09g / 0.003oz

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	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	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							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 T_a = 25 °C Rated DC Blocking Voltage T_a =125 °C	I_R	5 100							μA
Typical Junction Capacitance (1)	C_j	35							pF
Typical Thermal Resistance (2)	$R_{\theta JA}$ $R_{\theta JC}$	48 16							°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150							°C

(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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SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIERS

RATINGS AND CHARACTERISTICS S3AB - S3MB

Fig.1 Forward Current Derating Curve

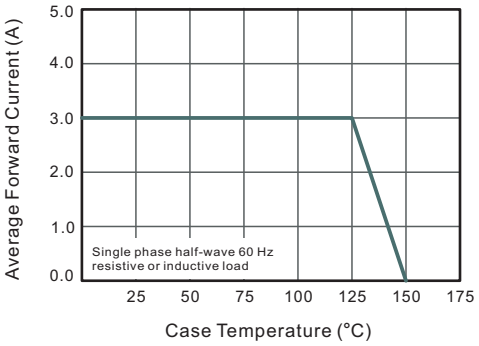


Fig.2 Typical Instaneous Reverse Characteristics

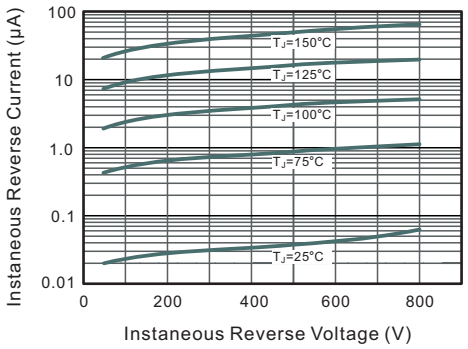


Fig.3 Typical Forward Characteristic

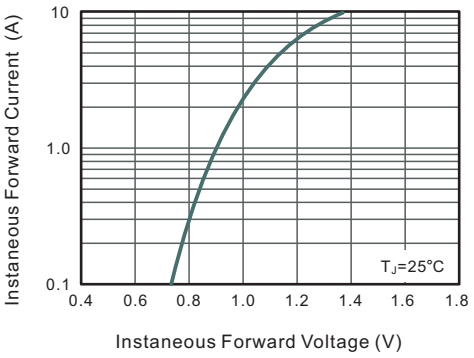


Fig.4 Typical Junction Capacitance

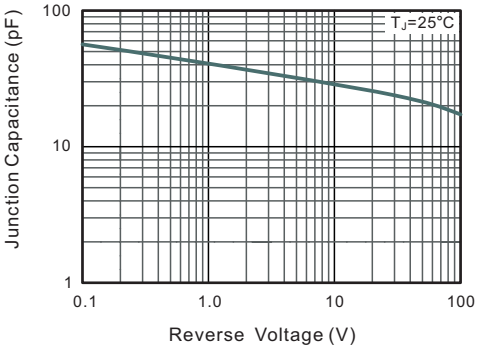
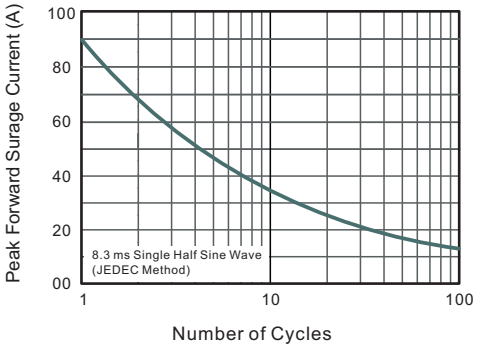


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



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S3AB - S3MB

Voltage Range - 50 to 1000 V

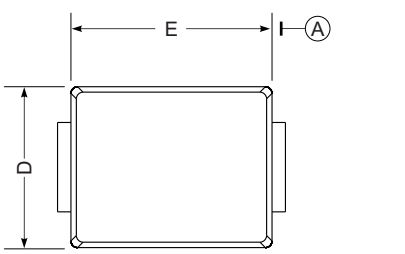
Forward Current - 3 Ampere

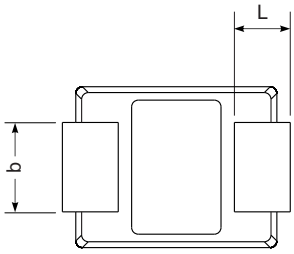
SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIERS

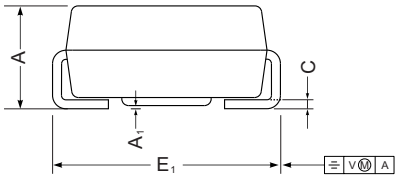
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMB



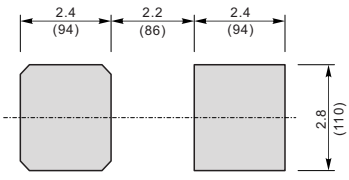




SMB mechanical data

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

The recommended mounting pad size



Unit : mm / (mil)

Marking

Type number	Marking code
S3AB	S3A
S3BB	S3B
S3DB	S3D
S3GB	S3G
S3JB	S3J
S3KB	S3K
S3MB	S3M

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