


RoHS
 COMPLIANT

Surface Mount General Purpose Silicon Rectifiers
Reverse Voltage - 50 to 1000 V
Forward Current - 2 A
FEATURES

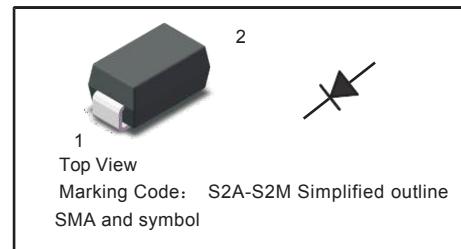
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode


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	S2A	S2B	S2D	S2G	S2J	S2K	S2M	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)}				2				A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}				60				A
Maximum Instantaneous Forward Voltage at 2 A	V _F				1.1				V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R				5		100		µA
Typical Junction Capacitance ⁽¹⁾	C _j				25				pF
Typical Thermal Resistance ⁽²⁾	R _{θJA}				65				°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 VD.C

⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



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Fig.1 Forward Current Derating Curve

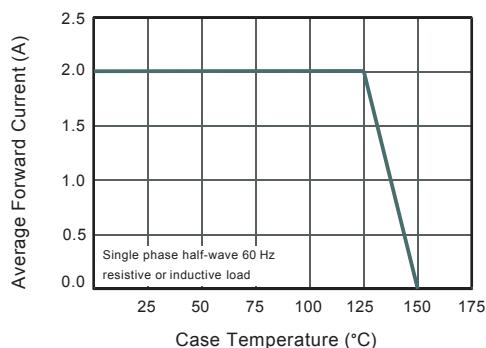


Fig.2 Typical Reverse Characteristics

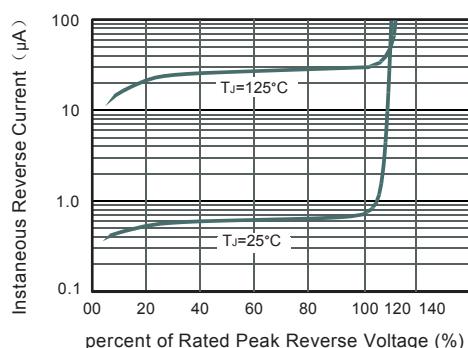


Fig.3 Typical Forward Characteristic

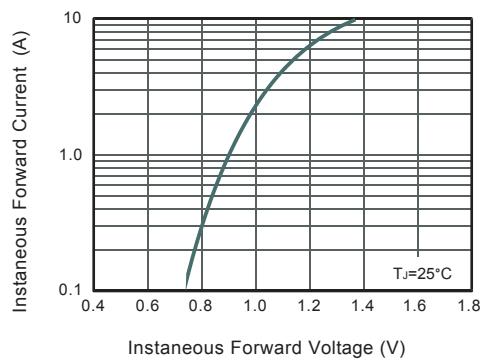


Fig.4 Typical Junction Capacitance

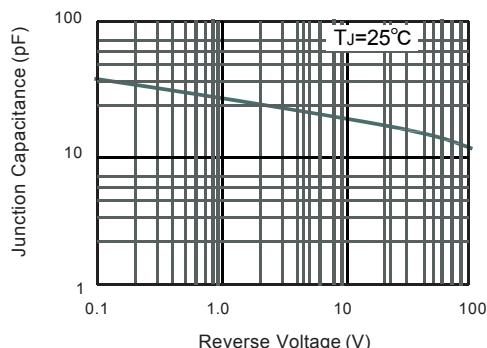
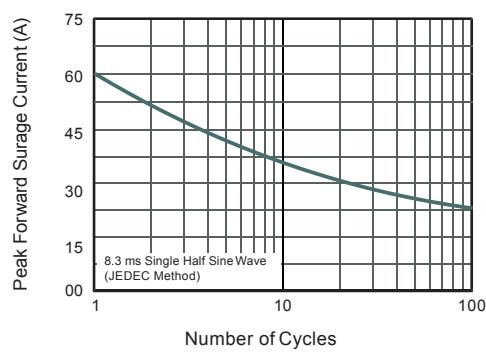


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

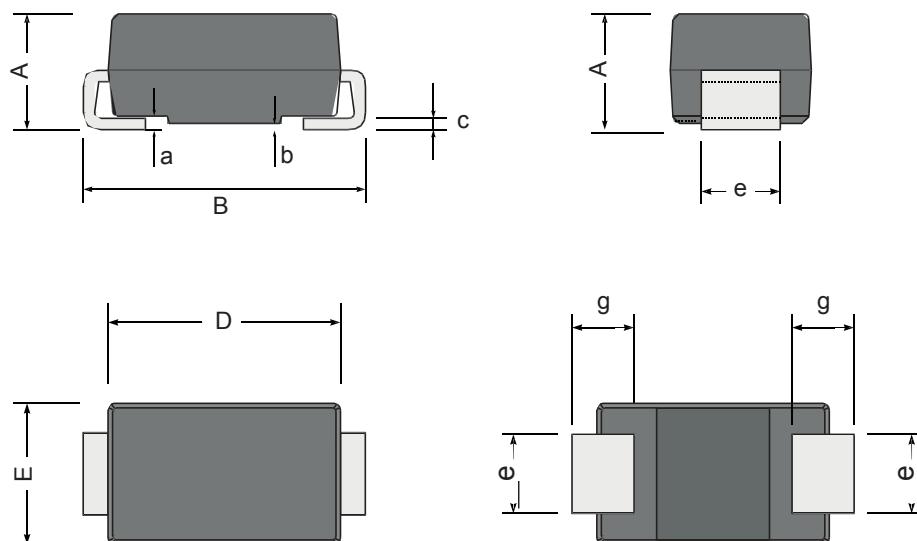




PACKAGE OUTLINE

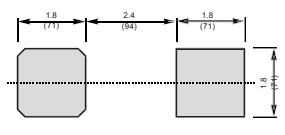
Plastic surface mounted package; 2 leads

SMA



UNIT		A	D	E	B	c	e	g	b	a
mm	max	2.2	4.5	2.8	5.3	0.31	1.6	1.5	0.2	0.3
	min	1.9	4.0	2.4	4.8	0.15	1.3	0.9	0.05	
mil	max	87	181	110	209	12	63	59	7.9	12
	min	75	157	94	189	6	51	35	2	

The recommended mounting pad size



Unit : mm
(mil)

Marking

Type number	Marking code
S2A	S2A
S2B	S2B
S2D	S2D
S2G	S2G
S2J	S2J
S2K	S2K
S2M	S2M