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
- Hireliability application and automotive grade AEC-Q101 qualified

MECHANICAL DATA

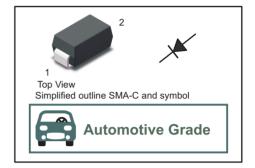
· Case: SMA-C

• 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	AT-S2A	AT-S2B	AT-S2D	AT-S2G	AT-S2J	AT-S2K	AT-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	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current	I _{F(AV)}	2					Α		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50					А		
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.1					V		
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 100					μA		
Typical Junction Capacitance (1)	C _j	10					pF		
Typical Thermal Resistance (2)	R _{θJA} R _{θJC}	95 25					°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 0.2" X 0.2" (5 X 5 mm) copper pad areas.

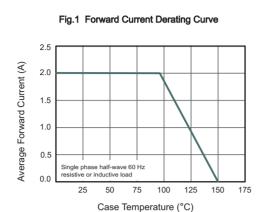


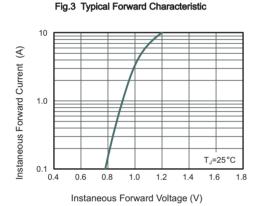
Fig.2 Typical Reverse Characteristics

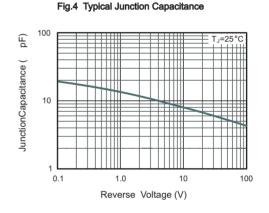
Property 100

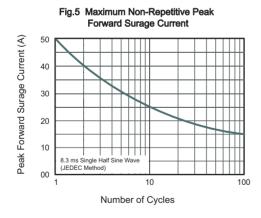
T_J=125°C

T_J=25°C

T_



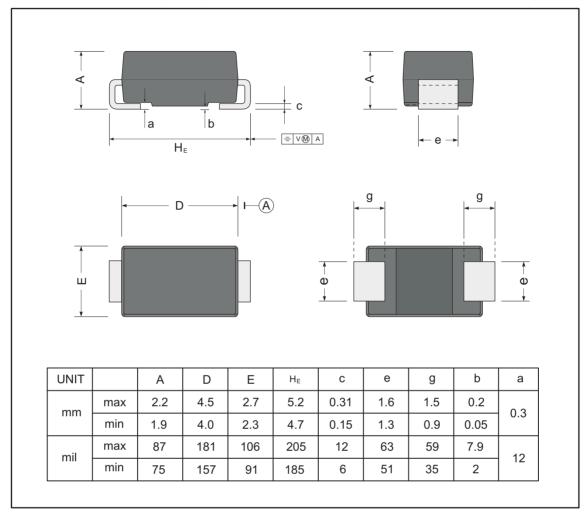




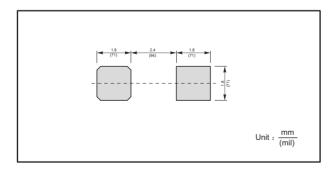
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA-C



The recommended mounting pad size



Marking

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

文件履历表

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