



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

Circuit Diagram & Pin Configuration:





SMA/DO-214AC

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					А		
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					μА		
Typical Junction Capacitance (1)	C _j	25					pF		
Typical Thermal Resistance (2)	$R_{\theta JA}$	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 V D.C

Marking

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

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





Fig.1 Forward Current Derating Curve

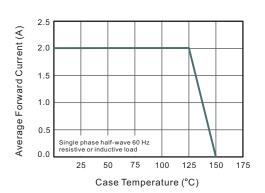


Fig.2 Typical Reverse Characteristics

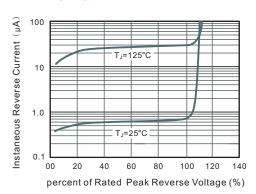


Fig.3 Typical Forward Characteristic

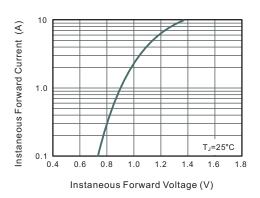


Fig.4 Typical Junction Capacitance

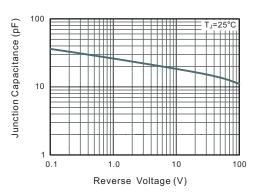
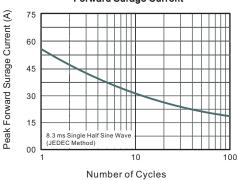


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



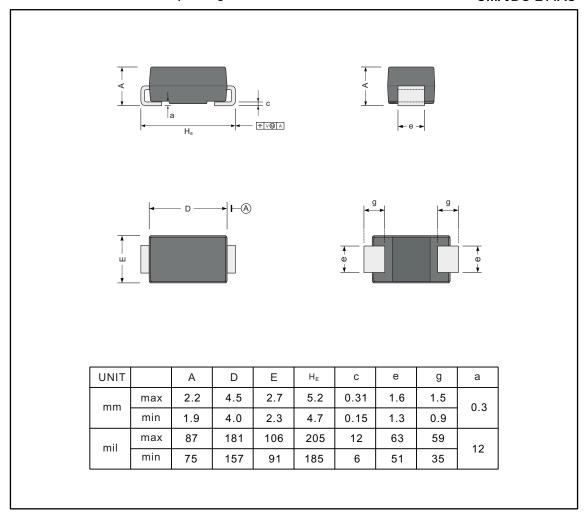




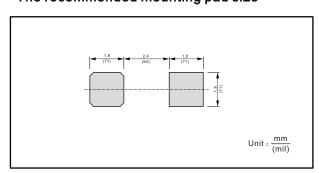
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA/DO-214AC



The recommended mounting pad size





S2A THRU S2M

NOTICE

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