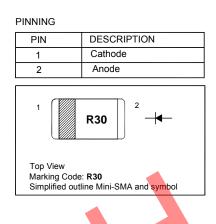
## S1AM THRU S1MM

## Surface Mount General Purpose Silicon Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 1 A



## **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	S1AM	S1BM	S1DM	S1GM	S1JM	S1KM	S1MM	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_a = 65^{\circ}C$	I <sub>F(AV)</sub>	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	30							А
Maximum Instantaneous Forward Voltage at 1 A	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Blocking Voltage $T_a = 125^{\circ}C$	I <sub>R</sub>	10 50						μA	
Typical Junction Capacitance 1)	Cj	4							pF
Typical Thermal Resistance <sup>2)</sup>	$R_{ extsf{ heta}JA}$	180						°C/W	
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	- 55 to + 150							°C

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C

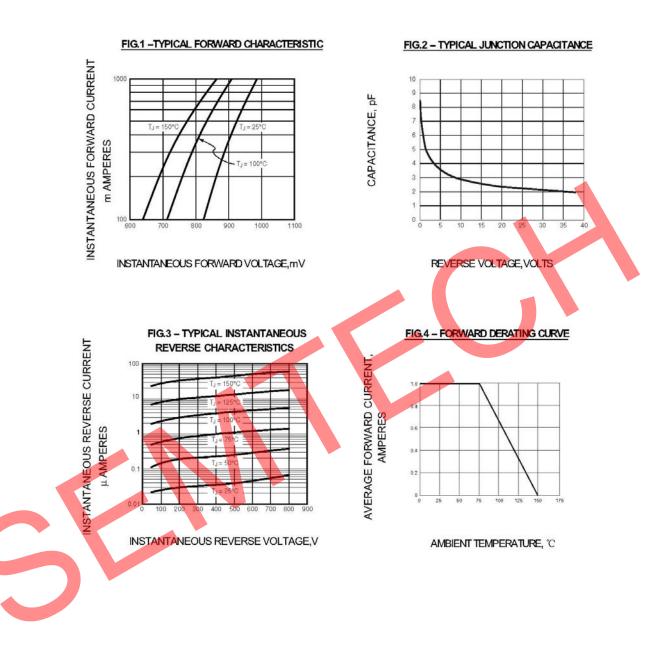
<sup>2)</sup> Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

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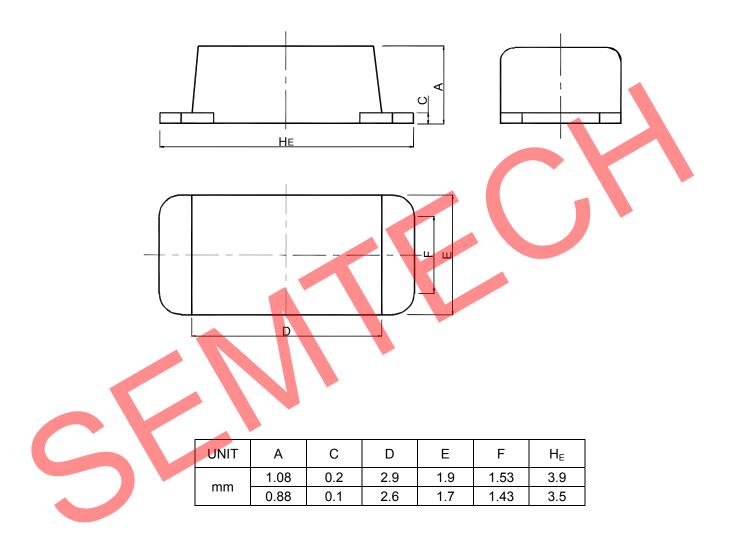




## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

Mini-SMA









Dated: 28/02/2013 Rev: 02