

# Surface Mount General Purpose Silicon Rectifiers Reverse Voltage - 50 to 1000 V

Forward Current - 1 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**

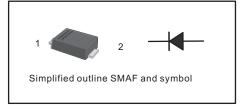
· Case: SMAF

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 27mg / 0.00095oz

#### **PINNING**

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



#### **Maximum Ratings and Electrical characteristics**

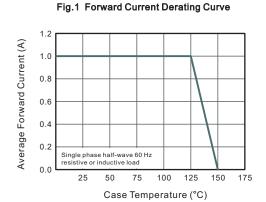
Ratings at 25 °C ambient temperature unless otherwise specified.

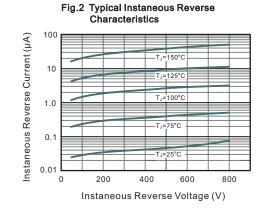
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

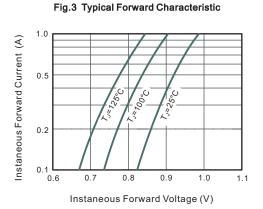
Parameter	Symbols	M1	M2	М3	M4	M5	М6	M7	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T <sub>c</sub> = 125 °C	I <sub>F(AV)</sub>	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	30						А	
Maximum Instantaneous Forward Voltage at 1 A	V <sub>F</sub>	1.1						٧	
Maximum DC Reverse Current $T_a = 25  ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125  ^{\circ}\text{C}$	I <sub>R</sub>	5 50						μА	
Typical Junction Capacitance (1)	C <sub>j</sub>	15						pF	
Typical Thermal Resistance (2)	$R_{\theta JA}$	80						°C/W	
Operating and Storage Temperature Range	$T_{j},T_{stg}$	-55 ~ +150							°C

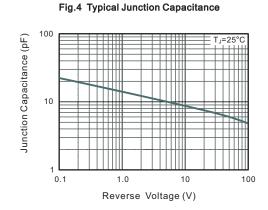
<sup>(1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C

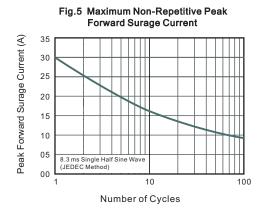
<sup>(</sup> 2 ) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.







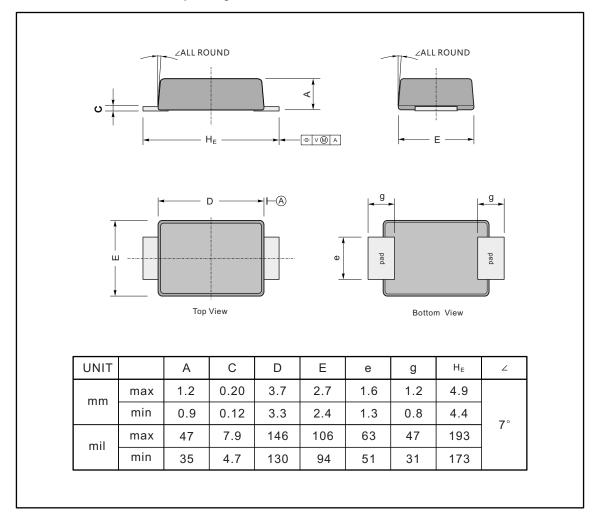




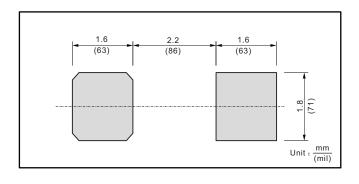
## PACKAGE OUTLINE

## Plastic surface mounted package; 2 leads

**SMAF** 



## The recommended mounting pad size



### Marking

Type number	Marking code				
M1	M1				
M2	M2				
М3	М3				
M4	M4				
M5	M5				
M6	M6				
M7	M7				

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