# SURFACE MOUNT FAST RECOVERY RECTIFIERS

Forward Current-2A

Reverse Voltage-50V to 1000V

#### **FEATURES**

- ♦ For surface mount applications
- ♦ Glass passivated chip junction
- ♦ Low profile package
- ◆ Fast reverse recovery time
- ◆ Lead free in comply with EU RoHS2011/65/EU directives

### **MECHANICAL DATA**

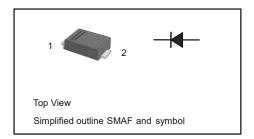
◆ Case: SMAF molded plastic body

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

Weight: Approximated 0.027 grams

#### **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 derating by 20 %.

PARAMETER	SYMBOL	RS2AF -AT	RS2BF -AT	RS2DF -AT	RS2GF -AT	RS2JF -AT	RS2KF -AT	RS2MF -AT	UNIT
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 Tc=125°C	I <sub>F(AV)</sub>	2					Α		
Peak Forward Surge Current (Note1)	I <sub>FSM</sub>	50					Α		
Maximum Forward Voltage at 2.0 A	VF	1.3					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage at T <sub>A</sub> =25°C T <sub>A</sub> =125°C	IR	5 100					uA		
Typical Junction Capacitance at V <sub>R</sub> =4V, f=1MHz	CJ	22					pF		
Maximum Reverse Recovery Time (Note2)	Trr	150 250 50			00	nS			
Typical Thermal Resistance (Note3)	R <sub>0JA</sub> R <sub>0JC</sub>	65 20					°C/W		
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150					℃		

Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

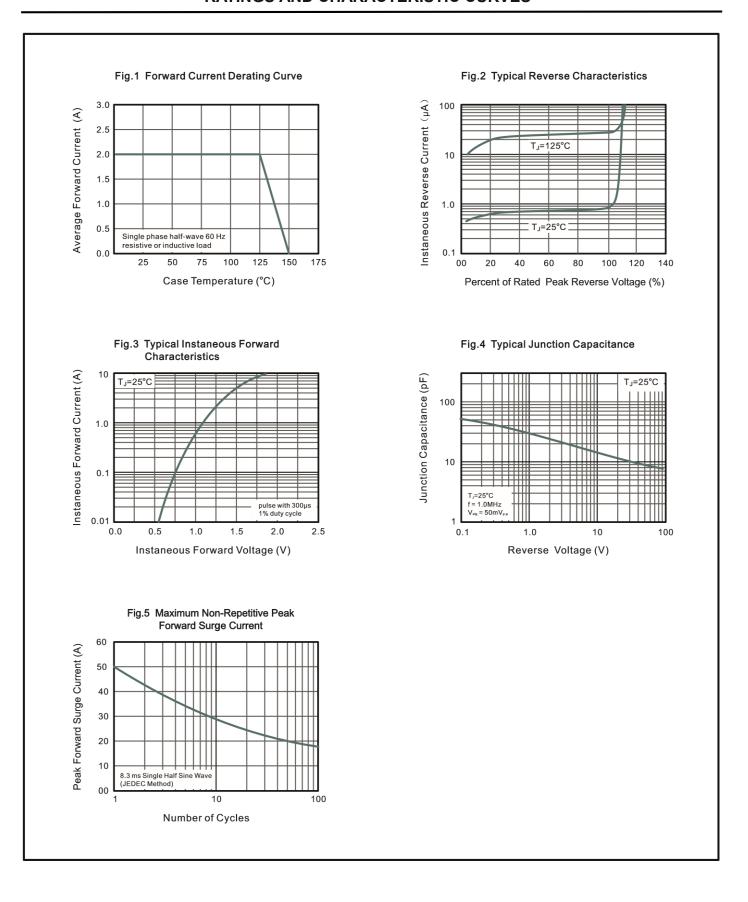
2. Measured with  $I_F$ =0.5A, $I_R$ =1A, $I_{rr}$ =0.25A.

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

Dated: 05/2016

Rev:1.0

### **RATINGS AND CHARACTERISTIC CURVES**

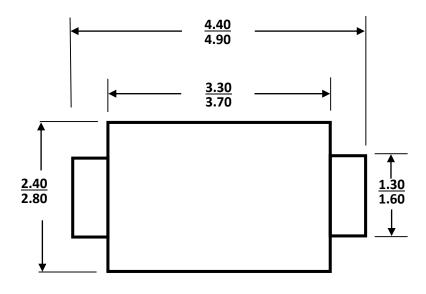


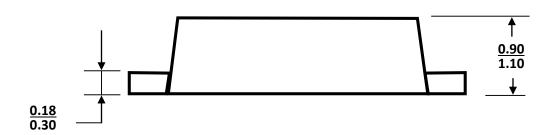
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# **PACKAGE OUTLINE**

# **SMAF**





**Dimensions in millimeters** 

# **ORDERING INFORMATION**

Device	Package	Shipping			
RS2AF-AT thru RS2MF-AT	SMAF	3,000/Tape & Reel (7 inches)			
	OWN (I	10,000/ Tape & Reel (13 inches)			

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