SURFACE MOUNT FAST RECOVERY RECTIFIERS

Forward Current-1A

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

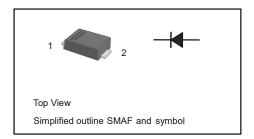
◆ Case: SMAF molded plastic body

◆ 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	RS1AF -AT	RS1BF -AT	RS1DF -AT	RS1GF -AT	RS1JF -AT	RS1KF -AT	RS1MF -AT	UNIT
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	V
Maximum Average Forward Rectified Current at Tc=125°C	I _{F(AV)}	1					Α		
Peak Forward Surge Current (Note1)	I _{FSM}	30					Α		
Maximum Forward Voltage at 1.0 A	VF	1.3					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage at T _A =25°C T _A =125°C	lR	5 100					uA		
Typical Junction Capacitance at V _R =4V, f=1MHz	CJ	15					pF		
Maximum Reverse Recovery Time (Note2)	Trr	150 250 500			00	nS			
Typical Thermal Resistance (Note3)	R _{θJA}	80					°C/W		
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C		

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

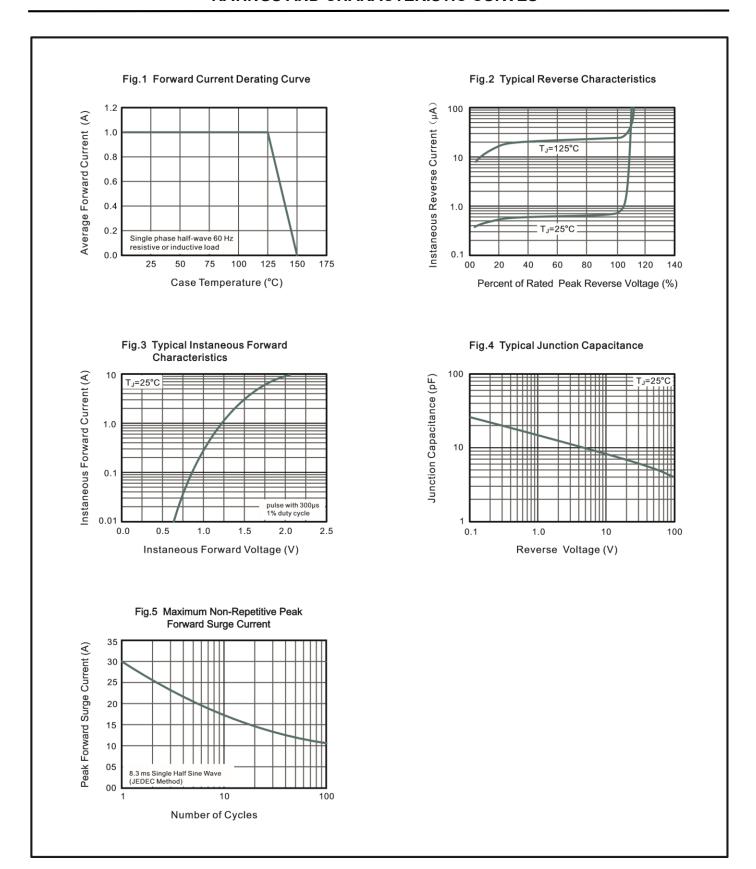
2. Measured with I_F =0.5A, I_R =1A, I_{rr} =0.25A.

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

Dated: 05/2016

Rev:1.0

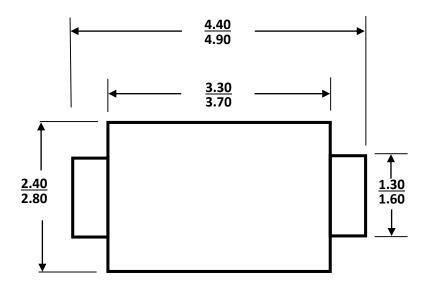
RATINGS AND CHARACTERISTIC CURVES

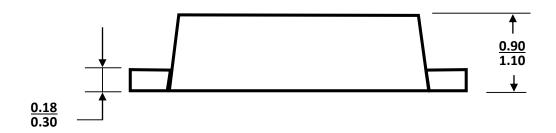


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PACKAGE OUTLINE

SMAF





Dimensions in millimeters

ORDERING INFORMATION

Device	Package	Shipping		
RS1AF-AT thru RS1MF-AT	SMAF	3,000/Tape & Reel (7 inches)		
	OIVI/ (I	10,000/ Tape & Reel (13 inches)		

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