RS1AF-AT THRU RS1MF-AT

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

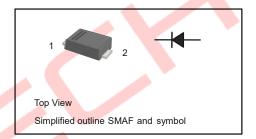
Case: SMAF molded plastic body

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	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Ave <mark>rage</mark> Forward Rectified Current at T _C =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	IR	5 100						uA	
Typical Junction Capacitance at V _R =4V, f=1MHz	Сл	15					pF		
Maximum Reverse Recovery Time (Note2)	Trr	150 250 500			00	nS			
Typical Thermal Resistance (Note3)	$R_{ heta JA}$	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.



Rev:1.0

RATINGS AND CHARACTERISTIC CURVES

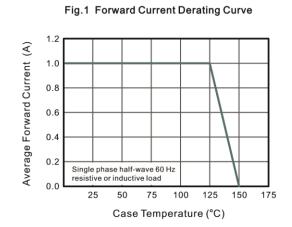


Fig.2 Typical Reverse Characteristics

T_J=125°C

1.0

T_J=125°C

1.0

T_J=25°C

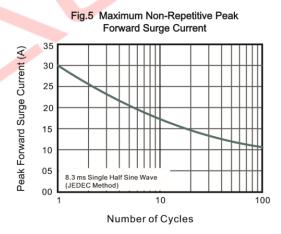
1.0

Percent of Rated Peak Reverse Voltage (%)

Fig.3 Typical Instaneous Forward

100 T_J=25°C 10

Fig.4 Typical Junction Capacitance





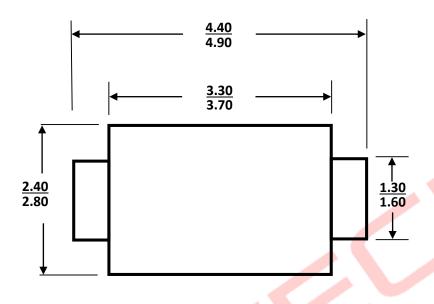
Dated: 05/2016

Rev:1.0

RS1AF-AT THRU RS1MF-AT

PACKAGE OUTLINE

SMAF





Dimensions in millimeters

ORDERING INFORMATION

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



Dated: 05/2016

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