

## **Features**

- · Glass passivated die construction
- . Low forward voltage drop
- . High current capability
- · High surge current capability
- Designed for surface mount application
- · Plastic material-UL flammability 94V-0

## **Mechanical Data**

· Terminal: Plated leads, solderable per MIL-

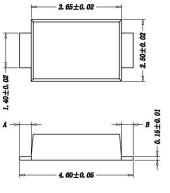
STD-750, Method 2026

Case: molded plastic SMAF

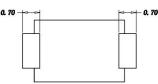
Polarity: Color band denotes postives end(cathode)

Standard packaging:12mm tape(EIA-481)

**SMAF** 







## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	RS2MF	UNITS
Peak Repetitive Reverse Voltage	Vrrm		
Working Peak Reverse Voltage DC Blocking Voltage	Vrwm	1000	V
	VDC		
RMS Reverse Voltage	VRMS	700	V
Maximum average forward rectified current @ $_{\rm T}$ =40 $^{\circ}$	lo	2	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	60	A
Forward Voltage per element @IF=1.0A	VFM	1.3	V
Peak Reverse Current @ <sub>_TA</sub> =25 °C At Rated DC Blocking Voltage @TA =125 °C	lr	5.0 50	uA
Typical Junction Capacitance per leg (Note 1)	Сл	28	pF
Maximum reverserecovery tme (Note2)	trr	500	ns
Typical Thermal Resistance per leg (Note 3)	RөJA	60	- °C/W
	Rejl	16	
Operating and Storage Temperature Range	Т <sub>J</sub> ,Тsтg	-55to+150	$^{\circ}\mathbb{C}$

Note:1. Measured with I F =0.5A,I R =1A,I RR =0.25A

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
- 3. Thermal resistance junction of ambient.

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## FIG. 1- FORWARD CURRENT DERATING CURVE

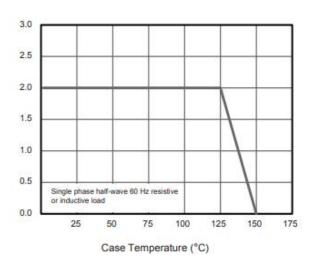


Fig.3 Typical Instaneous Forward Characteristics T<sub>J</sub>=25°

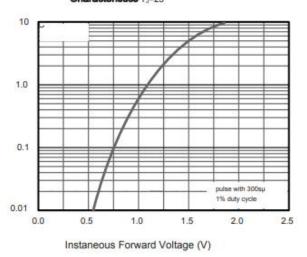


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

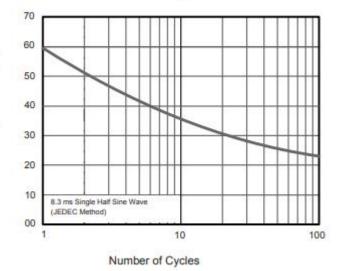


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

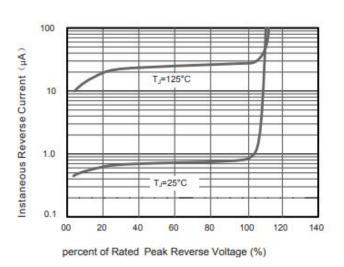


Fig.4 Typical Junction Capacitance

