Suntan_® Su_®

FS1A THRU FS1M

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

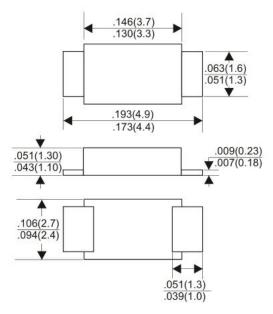
FEATURES

- ◆For surface mounted applications
- ◆Low profile package
- ♦ Glass Passivated Chip Junction
- ◆Easy to pick and place
- ◆Fast reverse recovery time
- ◆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

SMAF



Dimensions in inches and (millimeters)

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%

PARAMETER		SYMBOL	FS1A	FS1B	FS1D	FS1G	FS1J	FS1K	FS1M	UNIT
Maximum Repetitive Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current At T_{C} =125 $^{\circ}\!\!\!^{\circ}\!\!\!^{\circ}$		(AV)	1.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		IFSM	30						Amps	
Maximum instantaneous forward voltage per at 1.0A		V _F	1.3							VOLTS
Maximum DC Reverse Current at Rated DC blocking voltage	T _A =25℃		5.0							– uA
	T _A =125℃	l R	50							
Maximum Reverse Recovery Time Test conditions I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}	150		250	500		nS		
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		CJ	15							pF
Typical Thermal Resistance		Reja	80							°C/W
Operating Junction Temperature		TJ	-55 to +150							°C
Storage Temperature Rang		Тѕтс	-55 to +150							°C

Note: 1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $2.0 \times 2.0^{"}$ (5.0×5.0cm) copper pad areas.

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RATING AND CHARACTERISTIC CURVES FS1A THRU FS1M

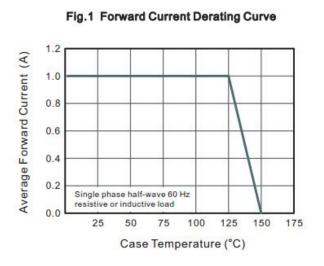
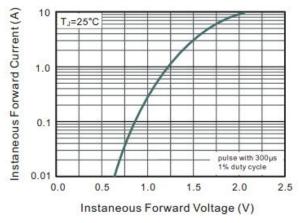
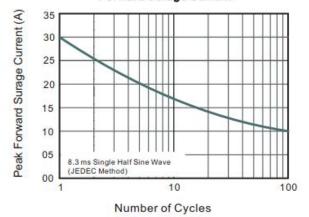


Fig.3 Typical Instaneous Forward Characteristics







Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

Fig.2 Typical Reverse Characteristics

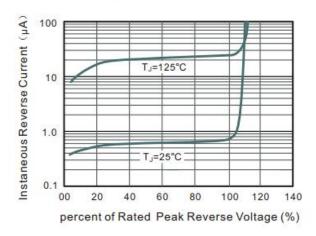


Fig.4 Typical Junction Capacitance

