

SUPER FAST RECTIFIERS

REVERSE VOLTAGE - 50 to 600 Volts FORWARD CURRENT - 8.0 Amperes

FEATURES

- Super fast switching time for high efficiency
- Low forward voltage drop High current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

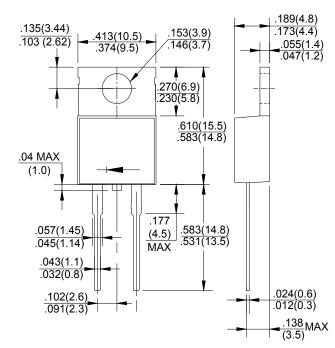
MECHANICAL DATA

●Case: TO-220AC molded plastic

●Epoxy: UL94V-0 rate flame retadant

Mounting position :AnyWeight: 2.24 grams

TO-220AC



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%

CHARACTERISTICS	SYMBOL	SF801	SF802	SF803	SF804	SF805	SF806	SF808	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current @TA =75 ℃	I(AV)	8.0							Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	125							Α
Peak Instantaneous Forward Voltage at 8.0A DC	VF	1.0				.3	1.7	V	
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	lr	10 150							μA
Maximum Reverse Recovery Time(Note1)	Trr	35							nS
Typical Junction Capacitance (Note2)	CJ	40							pF
Typical Thermal Resistance (Note3)	Rеја	5							°C/W
Operating and Storage Temperature Range	ТJ,Тsтg	-55 to + 150							$^{\circ}$

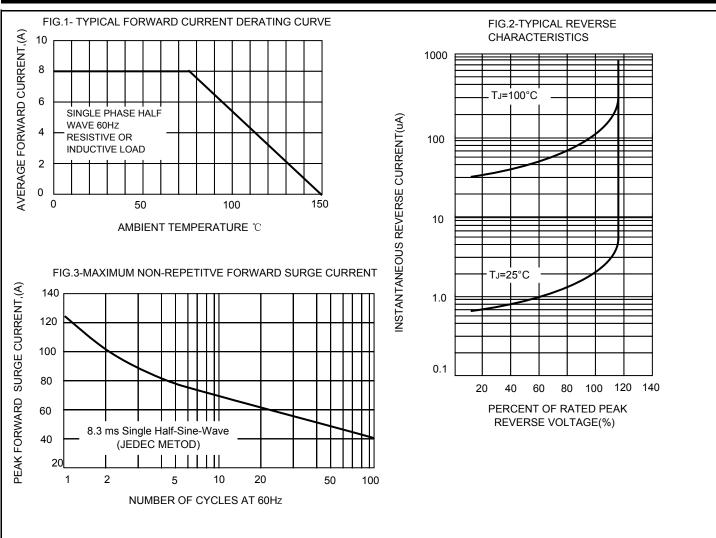
NOTES:1.Measured with IF=0.5A,IR=1A,IRR=0.25A

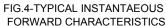
- 2.Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to ambient
- 4.The typical data above is for reference only(典型值仅供参考).

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RATING AND CHARACTERTIC CURVES SF801 thru SF808







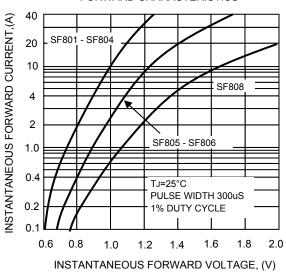
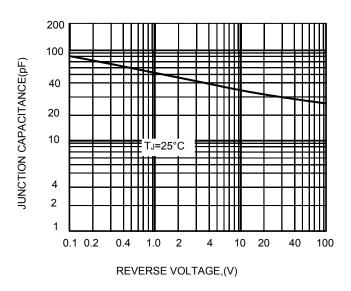


FIG.5-TYPICAL JUNCTION CAPACITANCE



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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