

SUPER FAST RECTIFIERS

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

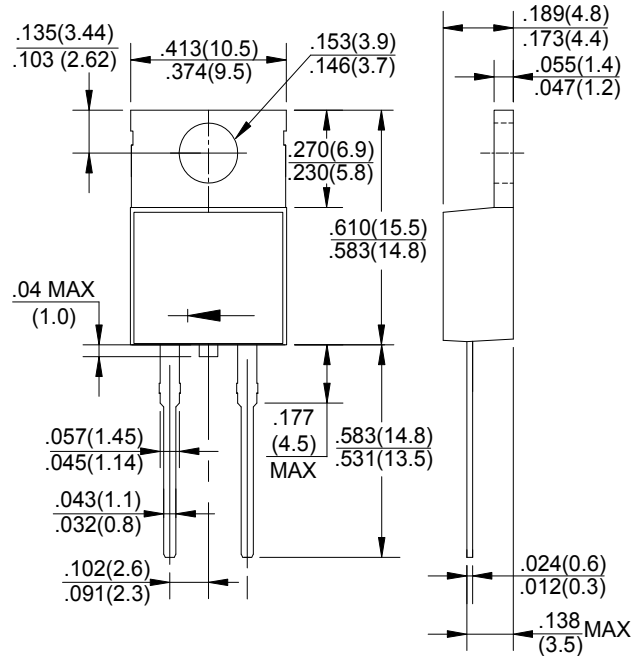
FEATURES

- 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 retardant
- Mounting position :Any
- Weight: 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%

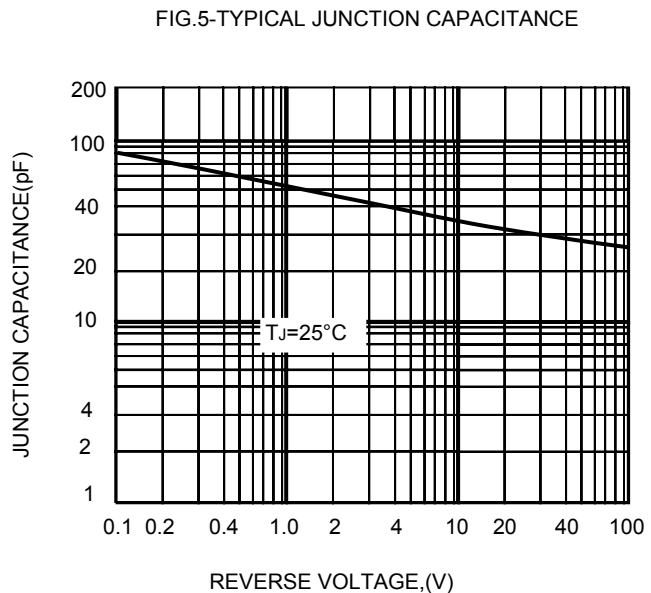
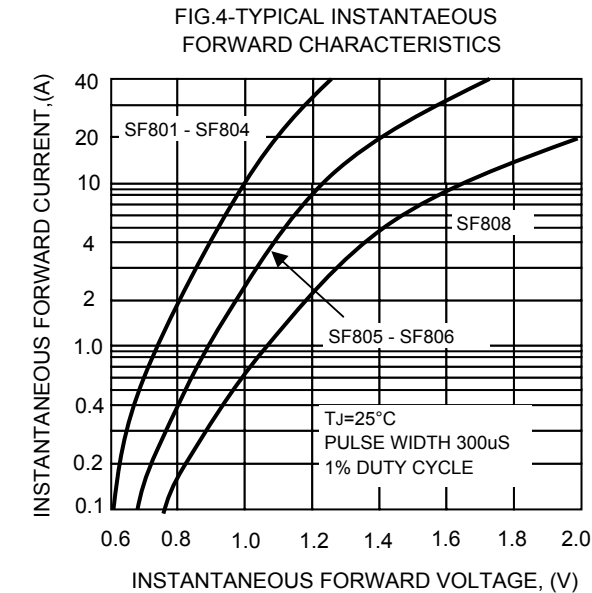
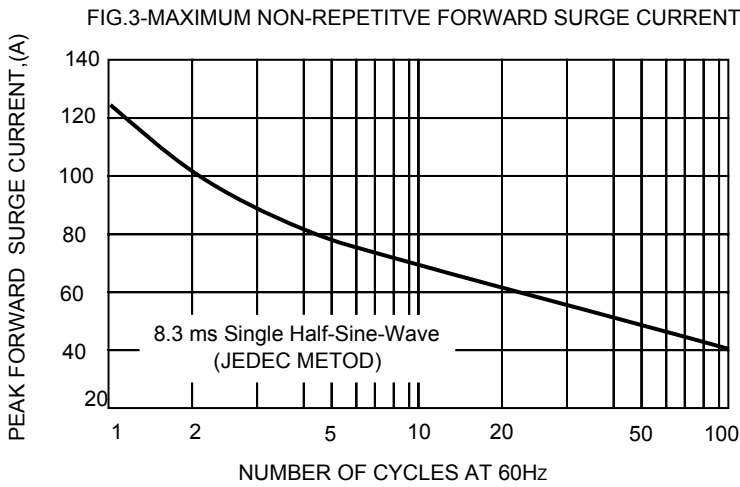
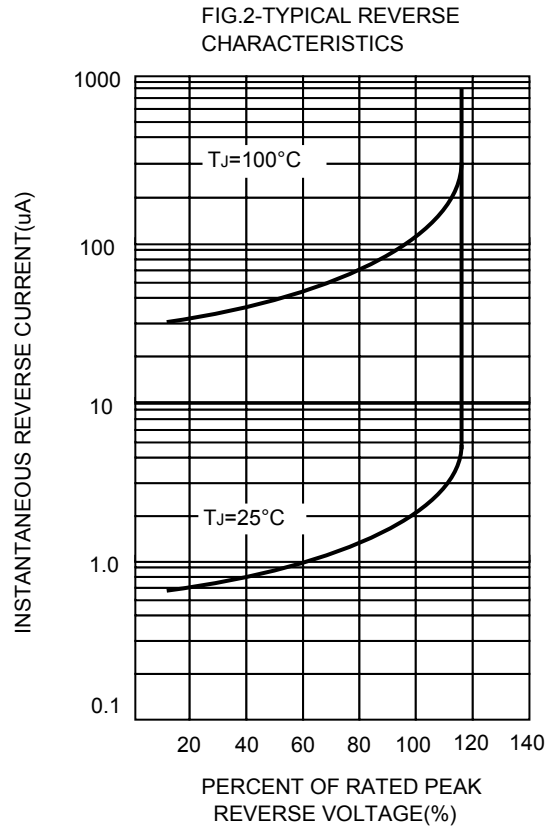
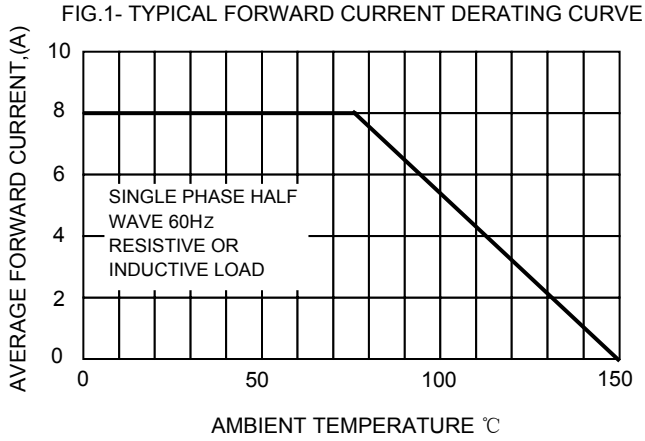
CHARACTERISTICS	SYMBOL	SF801	SF802	SF803	SF804	SF805	SF806	SF808	UNIT	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V	
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V	
Maximum Average Forward Rectified Current @T _A =75 °C	I _(AV)	8.0							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	125							A	
Peak Instantaneous Forward Voltage at 8.0A DC	V _F	1.0			1.3		1.7		V	
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	10				150				µA
Maximum Reverse Recovery Time(Note1)	T _{RR}	35								nS
Typical Junction Capacitance (Note2)	C _J	40								pF
Typical Thermal Resistance (Note3)	R _{θJA}	5								°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to + 150							°C	

NOTES: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 to ambient

4.The typical data above is for reference only(典型值仅供参考).



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