Super Fast Recovery Rectifier multicomp





Features:

- Fred chip planar construction
- Super fast switching, high efficiency
- Low forward voltage drop
- Low forward voltage current
- High surge current capacity
- Plastic package has UL flammability classification 94V-0

Mechanical Data:

Case : TO-220AB Type, Molded Plastic

Terminals : Pure Tin plated, Lead free Solderable Per MIL-STD-750, method 2026

Polarity : As marked Weight : 1.2 grams Mounting Position : Any Reverse Voltage : 200Volts **Forward Current** : 8 Amperes

Typical Application:

For use in High Frequency Rectifier of Switching Mode Power Supplies, Freewheeling Diode, DC/DC Converters or polarity Protection Application

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	Values	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	200	V
Max. RMS Voltage	VRMS	140	
Max. DC Blocking Voltage	VDC	200	
Maximum Average Forward Rectified Current	I(AV)	8	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC method)	Ігѕм	100	A
Peak Forward Voltage at 4A per leg	VF	0.95	V
Max. DC Reverse Current at T _J = 25°C Rated DC Blocking Voltage T _J = 100°C	lR	10 250	μА
Max. Reverse Recovery Time (Note 1)	Trr	35	nS
Typical Thermal Resistance, Junction to Case	Rелс	2	°C/W
Operating Temperature Range	TJ	-55 to +150	
Storage Temperature Range	Тѕтс		°C

Notes:

- 1. Measured with $I_F = 0.5A$, $I_R = 1A$, $I_{RR} = 0.25A$.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only

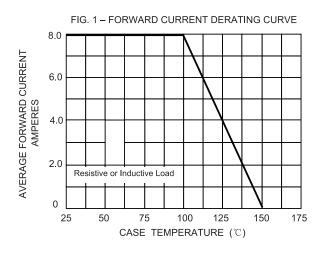
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Ratings and Characteristic Curves



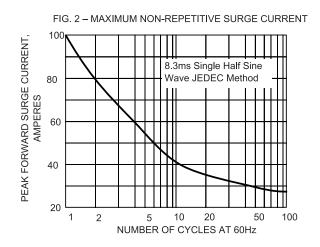


FIG.3-TYPICAL REVER CHARACTERISTICS

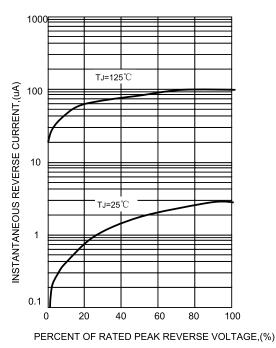
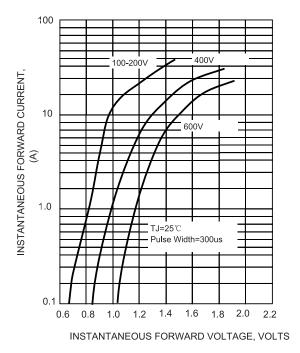


FIG.4-TYPICAL FORWARD CHARACTERISTICS



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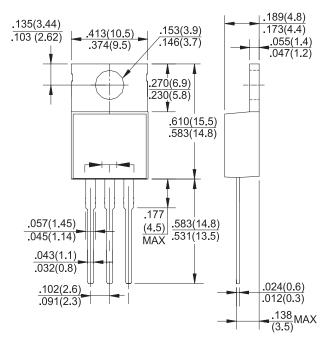


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Dimensions:

TO-220AB



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Super Fast Recovery Rectifier	SF804CT	

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