

Fast Recovery Rectifier Diodes

... Designed for use in switching power supplies. inverters and as free wheeling diodes. These state-of-the-art devices have the following features:

- * Glass Passivated chip junctions

- * Low Reverse Leakage Current
 * Fast Switching for High Efficiency
 * 150 °C Operating Junction Temperature
- * Low Forward Voltage , High Current Capability
 * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- *Pb Free
- *In compliance with EU RoHs directives



MAXIMUM RATINGS

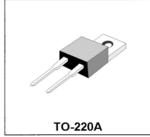
Characteristic	Symbol	F08A				Unit
		05	10	15	20	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	150	200	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	105	140	٧
Average Rectifier Forward Current	I _{F(AV)}	8.0			Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,single phase,60Hz)	I _{FSM}	150			А	
Operating and Storage Junction T _j , T _{stg}		- 65 to + 150				°C

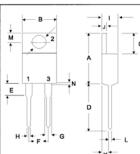
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	F08A				Unit
		05	10	15	20	
Maximum Instantaneous Forward Voltage $(I_F=8.0 \text{ Amp}, T_C=25 ^{\circ}\text{C})$	V _F	1.30			V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25$ °C) (Rated DC Voltage, $T_c = 100$ °C)	I _R	10 500			uA	
Reverse Recovery Time (I _F = 0.5 A, I _R =1.0 A, I _{rr} =0.25 A)	Т"	150			ns	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P		1:	20		pF

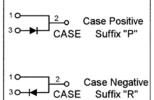
FAST RECOVERY **RECTIFIERS**

8 AMPERES 50 -- 200 VOLTS





DIM	MILLIMETERS			
DIM	MIN	MAX		
Α	14.68	16.00		
В	9.78	10.42		
С	5.02	6.60		
D	13.00	14.62		
E	3.10	4.19		
F	2.41	2.67		
G	1.10	1.67		
н	0.69	1.01		
1	3.21	4.98		
J	1.14	1.40		
K	2.20	3.30		
L	0.28	0.61		
M	2.48	3.00		
0	3.50	4.00		



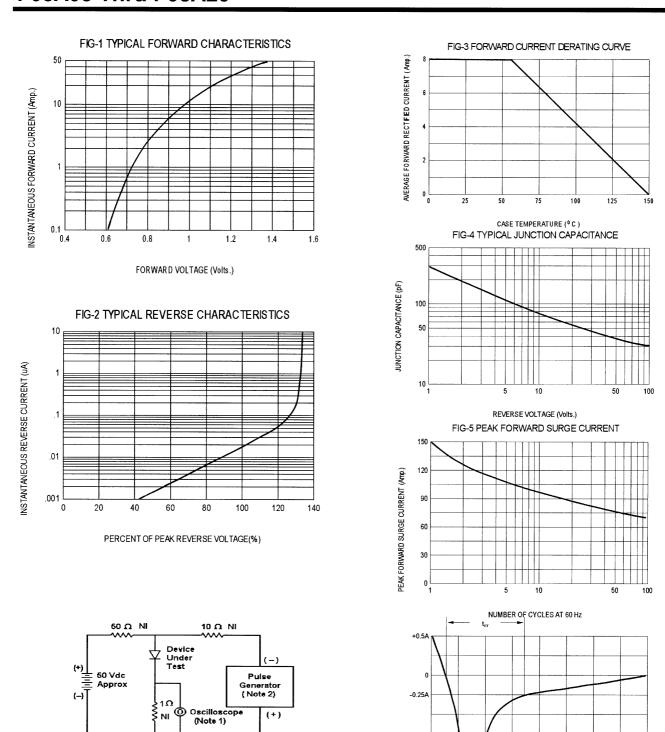


Fig-6 Reverse Recovery Time Characteristic and Test Circuit Diagram

Set time base for 50 ns/div

Notes: 1. Rise Time = 7 ns max. Input Impedance =1 M Ω , 22 pF 2. Rise Time = 10 ns max. Input Impedance = 50 Ω



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