

High Efficiency 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:

- * High Surge Capacity
- * Low Power Loss, High efficiency
- * Glass Passivated chip junctions
- * 150 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction
- * Low Forward Voltage, High Current Capability
- * High-Switching Speed 50 Nanosecond Recovery Time
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

MAXIMUM RATINGS

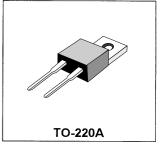
Characteristic	Symbol	H08A				Unit
		05	10	15	20	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	150	200	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	105	140	٧
Average Rectifier Forward Current	I _{F(AV)}	8.0			А	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	FSM	150			А	
Operating and Storage Junction Temperature Range	T _j , T _{stg}	- 65 to + 150			°C	

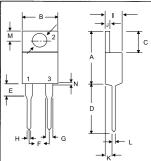
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	H08A				Unit
		05	10	15	20	7
Maximum Instantaneous Forward Voltage $(I_F=8.0 \text{ Amp}, T_C=25 ^{\circ}\text{C})$ $(I_F=8.0 \text{ Amp}, T_C=100 ^{\circ}\text{C})$	V _F	1.00 0.88			V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25$ °C) (Rated DC Voltage, $T_c = 100$ °C)	l _R	10 500			uA	
Reverse Recovery Time (I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A) T _{rr} 50			ns			
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	С _Р	120			pF	

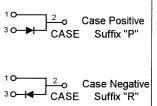
HIGH EFFICIENCY RECTIFIERS

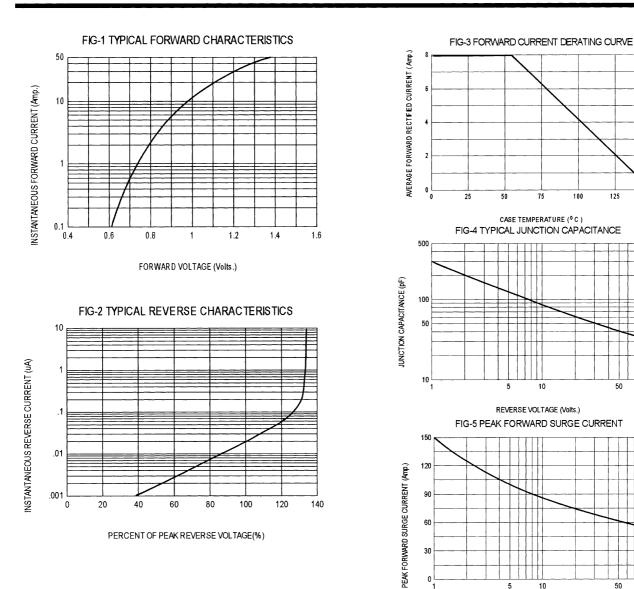
8 AMPERES 50 -- 200 VOLTS

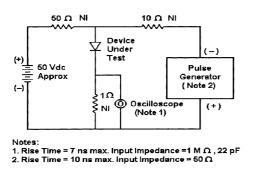


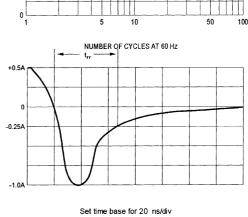


	MILLMETERS			
DIM	MIN	MAX		
Α	14.68	15.32		
В	9.78	10.42		
С	6.01	6.52		
D	13.06	14.62		
Ε	3.57	4.07		
F	4.83	5.33		
G	1.12	1.36		
Н	0.72	0.96		
1	4.22	4.98		
J	1.14	1.36		
K	2.20	2.97		
L	0.33	0.55		
М	2.48	2.98		
N		1.00		
0	3.70	3.90		









150

Fig-6 Reverse Recovery Time Characteristic and Test Circuit Diagram



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