

Switchmode Power Rectifiers

... 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 & 75 Nanosecond Recovery Time
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

MAXIMUM RATINGS

Characteristic	Symbol	bol		HER			Unit
		501	502	503	504	505	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	300	400	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	٧
Average Rectifier Forward Current	lo			5.0			Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,single phase,60Hz)	FSM			100			А
Operating and Storage Junction Temperature Range	T _j , T _{stg}		- 6	5 to + 1	150		°C

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol			HER			Unit	
		501	502	503	504	505		
Maximum Instantaneous Forward Voltage (I _F =5.0 Amp, T _C = 25 °C)	V _F		1.00		1.	30	V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _c = 25 °C) (Rated DC Voltage, T _c = 125 °C)	I _R			5.0 70			uA	
Reverse Recovery Time (I _F = 0.5 A, I _R =1.0, I _{rr} =0.25 A)	T _{rr}		50		7	5	ns	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P		55		4	.5	pF	

HIGH EFFICIENCY RECTIFIERS

5.0 AMPERES 50 -- 400 VOLTS

DO-201AD

DIM	MILLMETERS			
	MIN	MAX		
Α	5.00	5.60		
В	25.40			
С	8.50	9.50		
D	1.20	1.30		

CASE---Transfer molded plastic

POLARITY---Cathode indicated polarity band

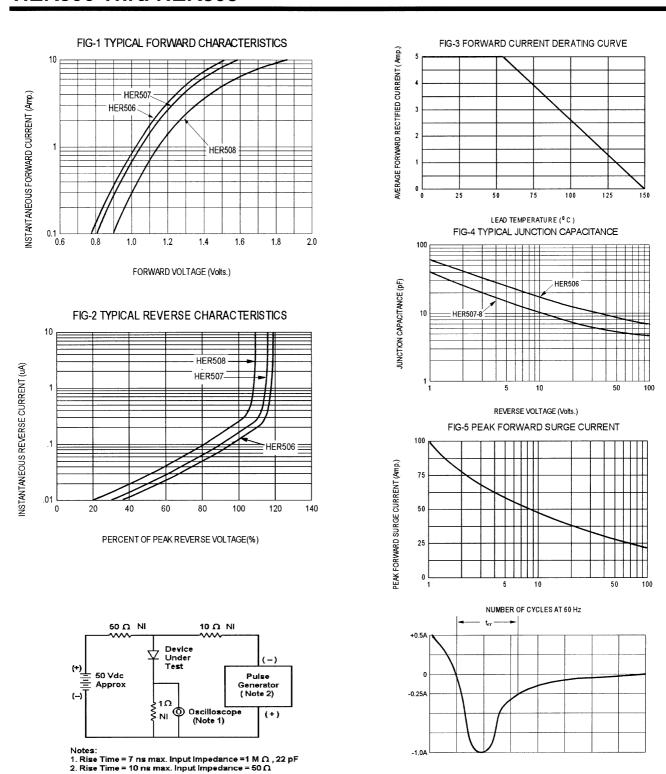


Fig-6 Reverse Recovery Time Characteristic and Test Circuit Diagram

Set time base for 20/50 ns/div



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