FR101 THRU FR107 GW **1.0 AMP FAST RECOVERY RECTIFIERS VOLTAGE RANGE** 50 to 1000 Volts CURRENT 1.0 Ampere **FEATURES** * Low forward voltage drop DO-41 * High current capability .107(2.7) * High reliability .080(2.0) * High surge current capability DIÁ. 1.0(25.4) MIN. **MECHANICAL DATA** ▼ * Case: Molded plastic .205(5.2) * Epoxy: UL 94V-0 rate flame retardant .166(4.2) * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed * Polarity: Color band denotes cathode end * Mounting position: Any 1.0(25.4) .034(.9) ΜÌΝ. .028(.7) DIA. ۷ Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	FR101	FR102	FR103	FR104	FR105	FR106	FR107	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								
.375"(9.5mm) Lead Length at Ta=75 °C	1.0							А
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)	30						А	
Maximum Instantaneous Forward Voltage at 1.0A	1.3						V	
Maximum DC Reverse Current Ta=25°C	5.0							μA
at Rated DC Blocking Voltage Ta=100°C	100							μ A
Maximum Reverse Recovery Time (Note 1)	150			250	500		nS	
Typical Junction Capacitance (Note 2)	15							pF
Operating and Storage Temperature Range TJ, Tstg	-65-+150							°C

NOTES:

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



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