

D/6



**PUNJAB**

*new lot*  
punjab wireless systems limited  
(A State Government Enterprise)  
PS-11-878  
D/6/1878

FR SERIES  
(N and P Type)

**SILICON FULL WAVE RECTIFIERS**

The FR series devices are full wave rectifiers designed for 3A to 30A average current applications upto 200V reverse voltage. These devices are available in hermetically sealed TO-3 package. The FR-N series is for common cathode and FR-P series is for common anode.

**QUICK REFERENCE DATA**

PARAMETER	SYMBOL	UNIT	FR 103	FR 203	FR 107	FR 207	FR 115N	FR 215N	FR 130N	FR 230N	
1. Crest Reverse Working Voltage (maximum)	$V_{RWM}$	Volts	100	200	100	200	100	200	100	200	
2. Repetitive Peak Reverse Voltage (maximum)	$V_{RRM}$	Volts	150	300	150	300	150	300	150	300	
3. Average Rectified Forward Current Through Load (maximum)	$I_L$	Amps	3	3	7	7	15	15	30	30	
4. Peak Non-Repetitive Surge Current (50 Hz half cycle) (maximum)	$I_{FSM}$	Amps	150	150	200	200	250	250	250	250	
5. Average Forward Current Per Diode (maximum)	$I_o$	Volts	1.5	1.5	3.5	3.5	7.5	7.5	15	15	
6. Forward Voltage Drop Per Diode ( $I_o = 7.5A$ and $T_J = 25^\circ C$ )	$V_{FAV}$	micro-amps	Less than 1.2 V for all types								
7. Reverse Current ( $V_R = V_{RRM}$ )	$I_R$	$^\circ C$	Less than 50 microamps for all types								
8. Junction Temperature (maximum)	$T_J$	$^\circ C$	175 $^\circ C$ for all types								
9. Storage Temperature	$T_{sto}$	$^\circ C$	-65 $^\circ C$ to +175 $^\circ C$ for all types								

Rating given above are absolute maximum at 25 $^\circ C$  unless otherwise specified.

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