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PUNWIRE

punjab wireless systems limited
(A State Government Enterprise)

SILICON FULL WAVE RECTIFIERS

FR SERIES (N and P Type)

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 115	FR 215	FR 130	FR 230
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°C)	V_{FAV}	micro-amps	Less than 1.2 V for all types							
7.	Reverse Current ($V_R = V_{RRM}$)	I_R	°C	Less than 50 microamps for all types							
8.	Junction Temperature (maximum)	T_J	°C	175°C for all types							
9.	Storage Temperature	T_{stg}	°C	−65°C to +175°C for all types							

Note : Rating given above are absolute maximum at 25°C unless otherwise specified.

RADIO COMMUNICATION DIVISION
WORKS: B-63, PHASE VI, S.A.S. NAGAR (Mohali) CHANDIGARH-160055, INDIA
CABLE: PUNWIRE MOHALI, TELEX: 0395-319 PWSL IN, TEL.—87367, 87967, 87692, 87652

SEMICONDUCTOR DIVISION
B-76, PHASE VIII, S.A.S. NAGAR (Mohali), CHANDIGARH-160055 INDIA
CABLE: HIREL MOHALI, TELEX.—0395-321 PSDL IN, TEL.—87453, 87530