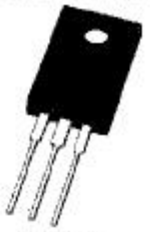
Switchmode
Full Plastic Dual Ultrafast Power Rectifiers

... 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 35 Nanosecond Recovery Time
* Plastic Material used Carries Underwriters Laboratory

ULTRA FAST RECTIFIERS

20 AMPERES
50 – 200 VOLTS



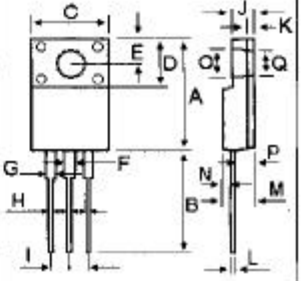
ITO-220

MAXIMUM RATINGS

Characteristic	Symbol	URF20				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	V
Average Rectifier Forward Current Per Leg T_C=125°C Per Total Device	$I_{F(AV)}$	10 20				A
Peak Repetitive Forward Current (Rate V_R ,Square Wave,20kHz,T_C=125°C)	I_{FM}	20				A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,single phase,60Hz)	I_{FSM}	150				A
Operating and Storage Junction Temperature Range	T_J , T_{stg}	- 65 to + 150				°C

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	URF20				Unit
		05	10	15	20	
Maximum Instantaneous Forward Voltage (I_F=10 Amp, T_C = 25 °C) (I_F=10 Amp, T_C = 125 °C)	V_F	0.975 0.880				V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T_C = 25 °C) (Rated DC Voltage, T_C = 125 °C)	I_R	10 500				uA
Reverse Recovery Time (I_F = 0.5 A, I_R =1.0 , I_{rr} =0.25 A)	T_{rr}	35				ns
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C_P	120				pF



DIM	MILLMETERS	
	MIN	MAX
A	15.05	15.15
B	13.35	13.45
C	10.00	10.10
D	6.55	6.65
E	2.65	2.75
F	1.55	1.65
G	1.15	1.25
H	0.55	0.65
I	2.50	2.60
J	3.00	3.20
K	1.10	1.20
L	0.55	0.65
M	4.40	4.60
N	1.15	1.25
P	2.65	2.75
O	3.35	3.45
Q	3.15	3.25