

**Switch mode
Full Plastic Single Ultra-fast Power Rectifier**

Designed for use in switching power supplies, inverters and as free-wheeling diodes. These state-of-the-art devices have the following

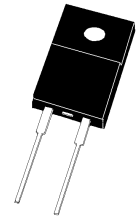
Features

- * Low T_{RR}
- * High Surge Capacity
- * Low Power Loss, High efficiency
- * Low Forward Voltage , High Frequency
- * High-Switching Speed Recovery Time
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives



**ULTRA FAST
RECTIFIER**

**10 AMPERES
600 VOLTS**



ITO-220AC

MAXIMUM RATINGS

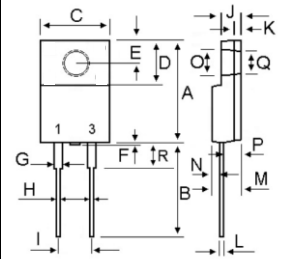
Characteristic	Symbol	UFF10A60	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	600	V
Average Rectifier Forward Current	$I_{F(AV)}$	10	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I_{FSM}	150	A
Operating and Storage Junction Temperature Range	T_J, T_{stg}	-55 to +150	°C

THERMAL RESISTANCES

Typical Thermal Resistance junction to case	$R_{\theta jc}$	4.2	°C/w
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ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Maximum Instantaneous Forward Voltage ($I_F = 10$ Amp $T_C = 25^\circ C$)	V_F	---	1.4	1.7	V
Maximum Instantaneous Reverse Current ($V_R = 400V, T_C = 25^\circ C$)	I_R	---	0.03	1	uA
Reverse Recovery Time ($I_F = 0.5$ A, $I_R = 1.0A, I_{rr} = 0.25$ A)	T_{rr}	---	29	35	ns



DIM	MILLIMETERS	
	MIN	MAX
A	14.80	16.10
B	12.65	14.40
C	9.70	10.36
D	4.60	6.80
E	2.50	3.50
F	---	2.00
G	0.90	1.45
H	0.50	0.90
I	4.80	5.40
J	2.34	3.30
K	0.55	1.30
L	0.36	0.80
M	4.20	4.90
N	1.10	1.80
O	2.90	3.50
P	2.30	3.15
Q	2.90	3.50
R	2.80	4.85

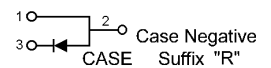
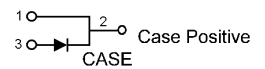


FIG-1 I_F — V_F

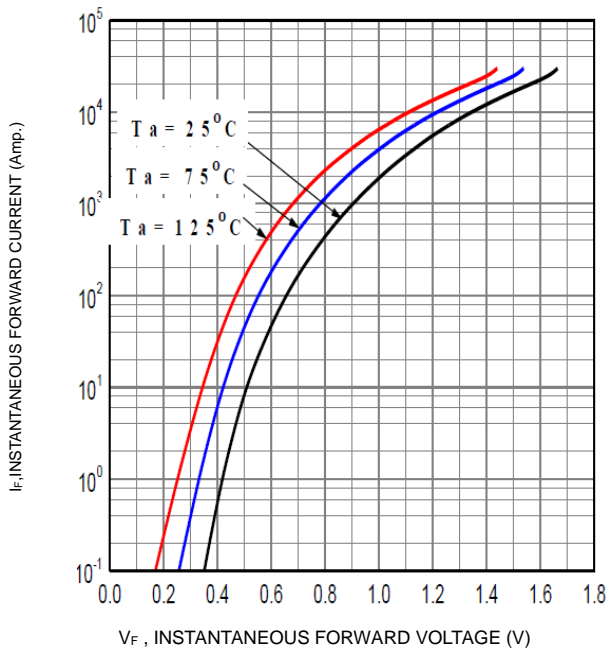


FIG-3 C_{TOT} -- V_R

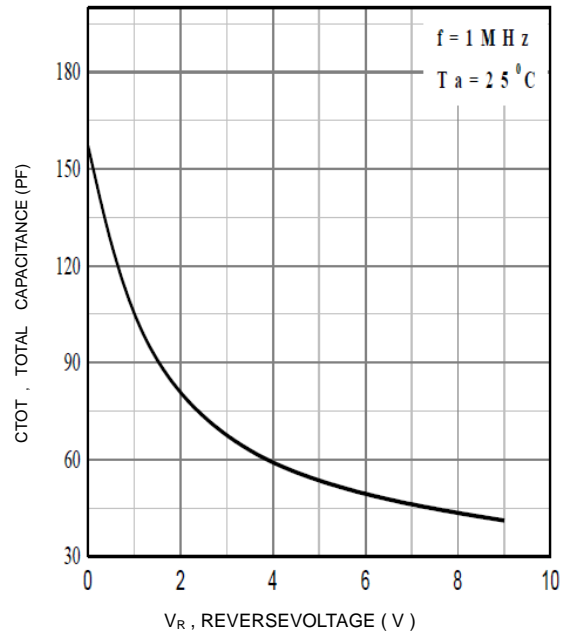
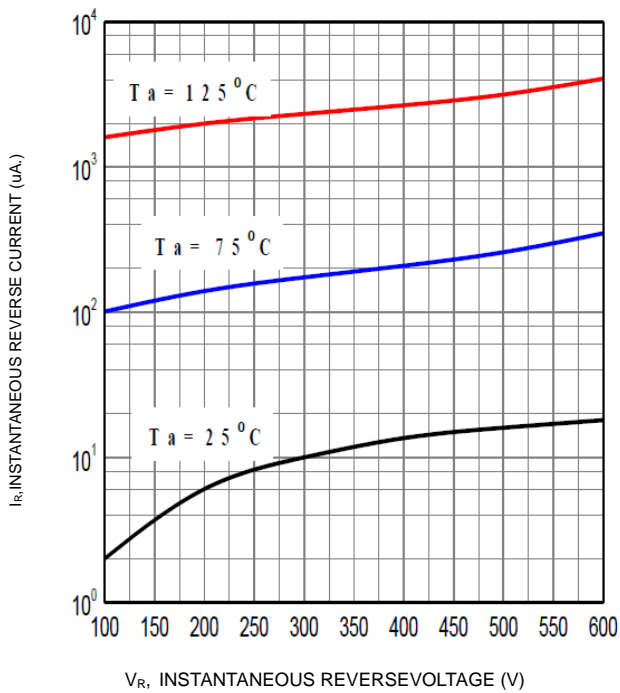


FIG-2 I_R — V_R



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