MOSPEC

<div align="right">

UF08A60

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Switchmode
Full Plastic Single Ultra-fast 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:
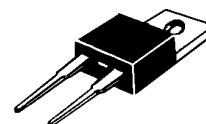
High Surge Capacity
Low Power Loss, High efficiency
175   Operating Junction Temperature
Low Forward Voltage , High Frequency
High-Switching Speed 21(typ.) Nanosecond Recovery Time
Plastic Material used Carries Underwriters Laboratory

In compliance with EU RoHs   2002/95/EC directives

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ULTRA FAST RECTIFIERS

8 AMPERES
600 VOLTS

TO-220A

</div>

MAXIMUM RATINGS

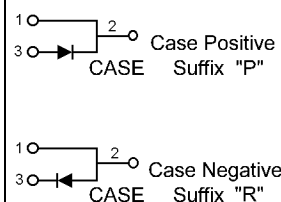| Characteristic	Symbol	UF08A60	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	420	V
Average Rectifier Forward Current	$I_{F(AV)}$	8.0	A
Peak Repetitive Forward Current (Rate V_R, Square Wave, 20kHz,T_C=125)	I_{FM}	8.0	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}	-65 to +175	

THERMAL RESISTANCES

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

ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	Min	Type	Max.	Unit
Maximum Instantaneous Forward Voltage (I_F =8 Amp T_C = 25)	V_F	--	1.74	2.0	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T_C = 25) (Rated DC Voltage, T_C = 100)	I_R	-- --	-- --	25 5	uA mA
Reverse Recovery Time (I_F = 0.5 A, I_R =1.0 , I_{rr} =0.25 A)	T_{rr}	--	16	25	ns
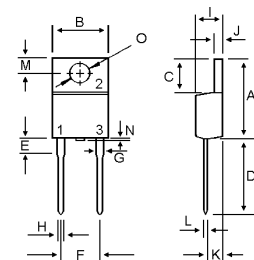
DIM	MILLIMETERS	
	MIN	MAX
A	14.68	15.32
B	9.78	10.42
C	5.02	6.52
D	13.06	14.62
E	3.57	4.07
F	4.84	5.32
G	1.12	1.36
H	0.72	0.96
I	4.22	4.98
J	1.14	1.38
K	2.20	2.98
L	0.33	0.55
M	2.48	2.98
N	---	1.00
O	3.70	3.90

Case Positive   CASE   Suffix "P"

Case Negative   CASE   Suffix "R"

UF08A60

FIG-1 TYPICAL FORWARD CHARACTERISITICS

Y-axis: AVERAGE FORWARD RECTIFIED CURRENT (Amp.)
X-axis: FORWARD VOLTAGE (Volts)
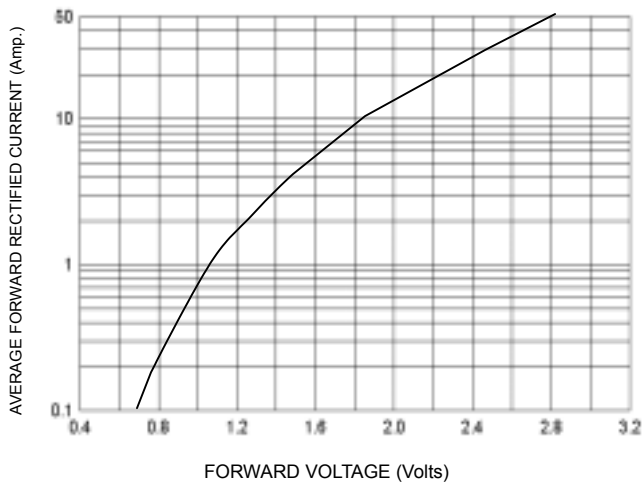
FIG-2 FORWARD CURRENT DERATING CURVE

Y-axis: AVERAGE FORWARD RECTIFIED CURRENT (Amp.)
X-axis: CASE TEMPERATURE (   )
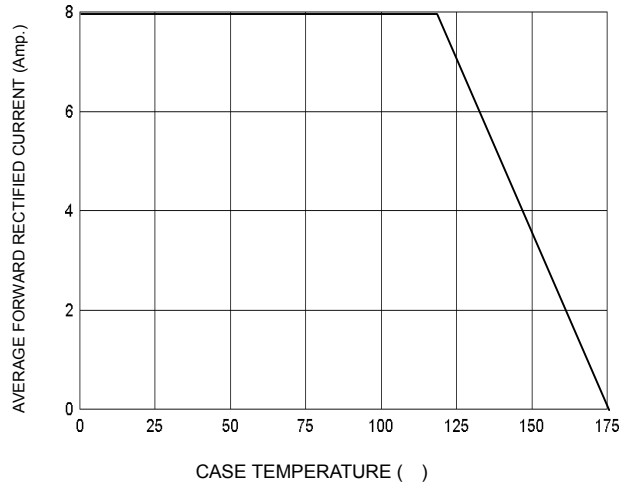
FIG-3 TYPICAL REVERSE CHARACTERISTICS
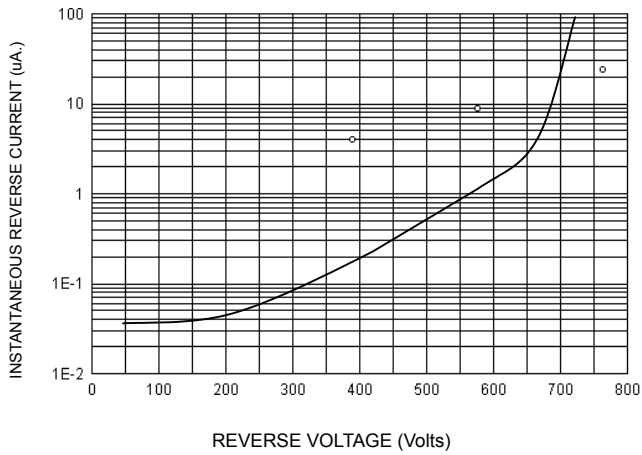
Y-axis: INSTANTANEOUS REVERSE CURRENT (uA.)
X-axis: REVERSE VOLTAGE (Volts)

FIG-4 PEAK FORWARD SURGE CURRENT

Y-axis: PEAK FORWARD SURGE CURRENT (Amp.)
X-axis: NUMBER OF CYCLES AT 60 Hz