

Ultra Fast Rectifier



RoHS
Compliant



Features:

- Fred chip planar construction
- Super fast recovery time
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic case material has UL flammability classification rating 94V-0

Mechanical Data:

Case	: TO-247AC Type molded Plastic
Terminals	: Solderable per MIL-STD-750, method 2026
Polarity	: As marked on the body
Weight	: 5.2 grams (approx)
Mounting Position	: Any
Reverse Voltage	: 600 Volts
Forward Current	: 30 Amperes

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Max. RMS Voltage	V _{RMS}	420	
Max. DC Blocking Voltage	V _{DC}	600	
Max. Average Forward Rectified Current @ T _c = 100°C	I _{F(AV)}	30	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	300	
Max. Instantaneous Forward Voltage at 30A DC	V _F	1.7	
Typical Thermal Resistance to Case	R _{θJC}	2	°C/W
Typical Thermal Resistance to Ambient	R _{θJA}	50	°C/W
Max. DC Reverse Current Rated DC Blocking Voltage	I _R	5 250	μA
Max. Reverse Recovery Time (Note 1)	T _{RR}	50	nS
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}		

Notes:

1. Measured With I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.
2. The typical data above is for reference only.

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Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

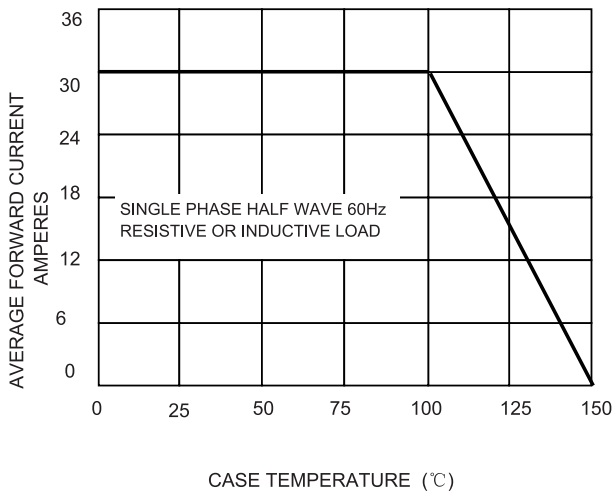


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

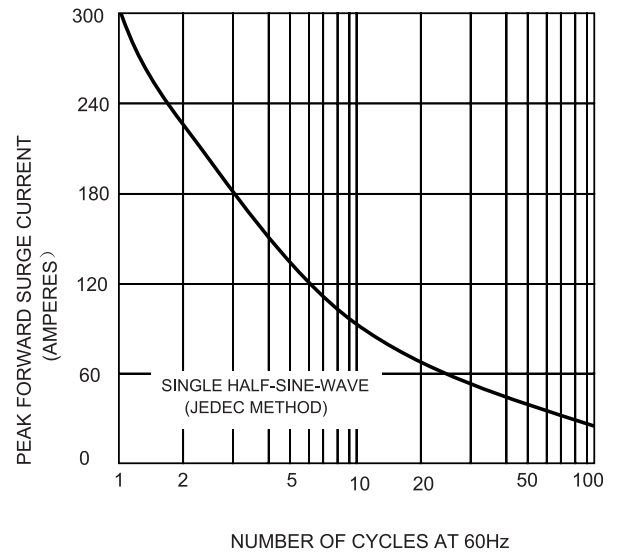


FIG.3-TYPICAL FORWARD CHARACTERISTICS

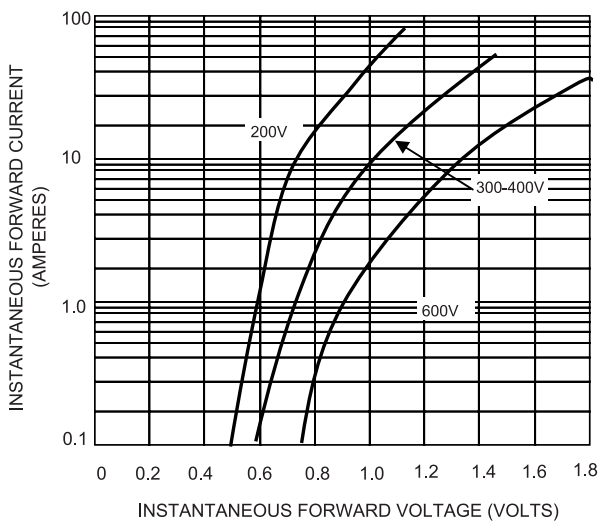
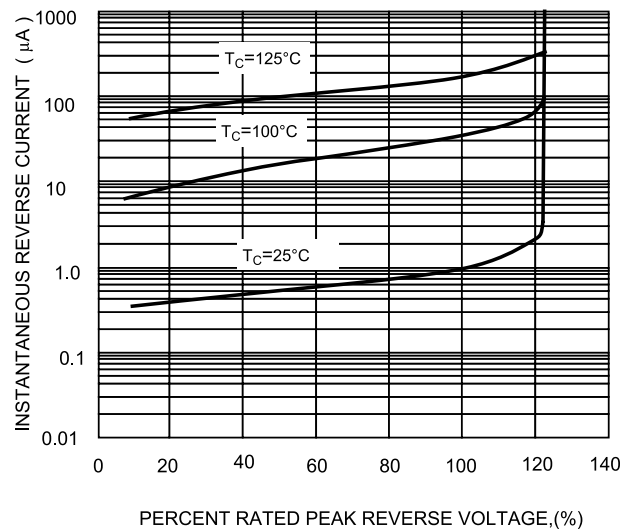


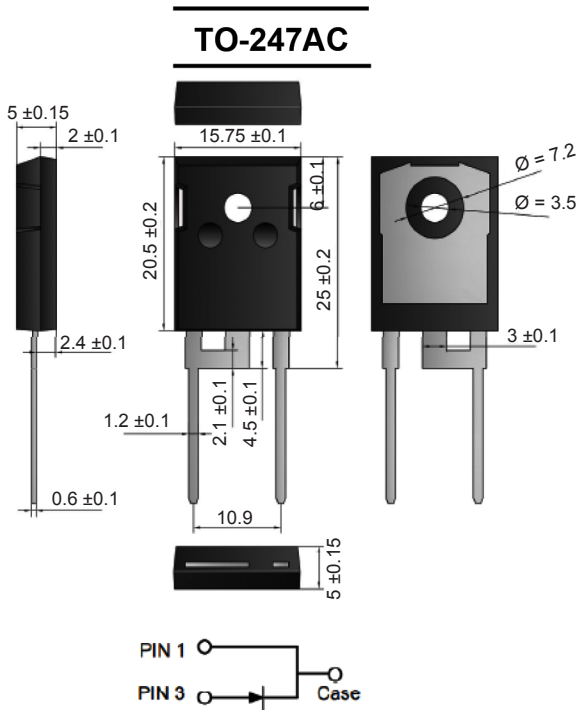
FIG.4-TYPICAL REVERSE CHARACTERISTICS



Ultra Fast Rectifier



Dimensions:



Dimensions : Millimetres

Part Number Table

Description	Part Number
Ultra Fast Rectifier	MUR3060

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