

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
		T _A = 25°C T _J = 100°C	
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.

Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

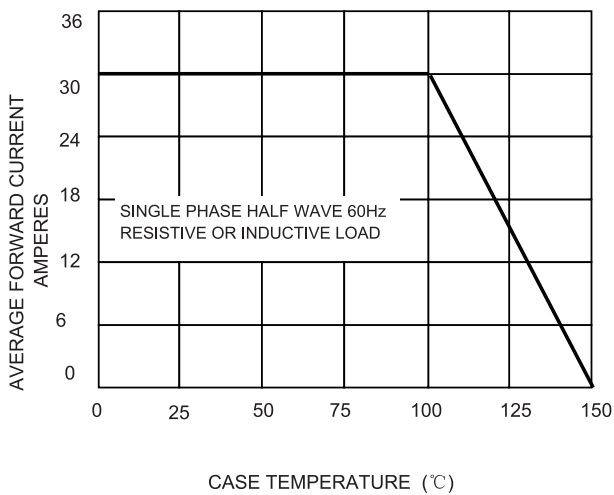


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

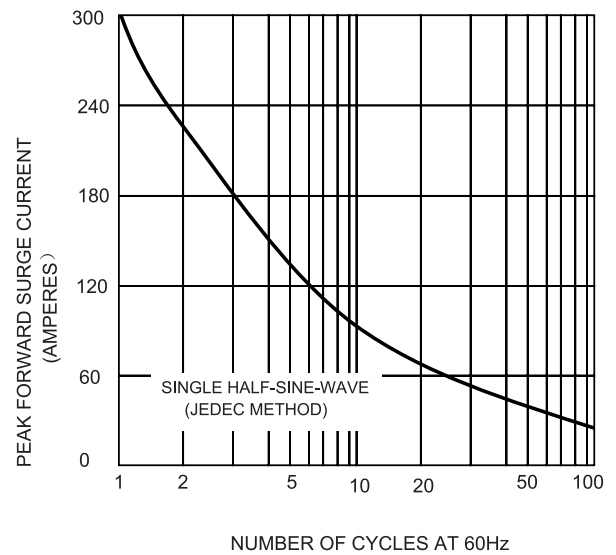


FIG.3-TYPICAL FORWARD CHARACTERISTICS

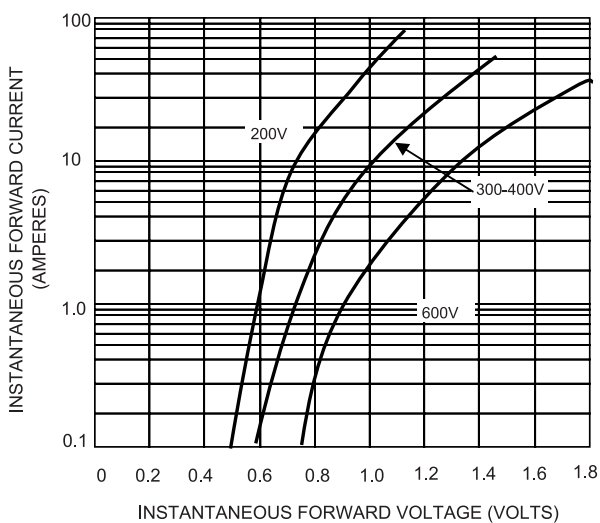
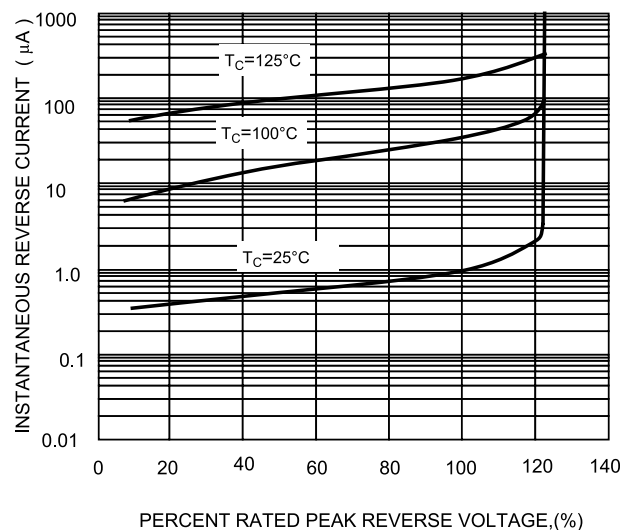
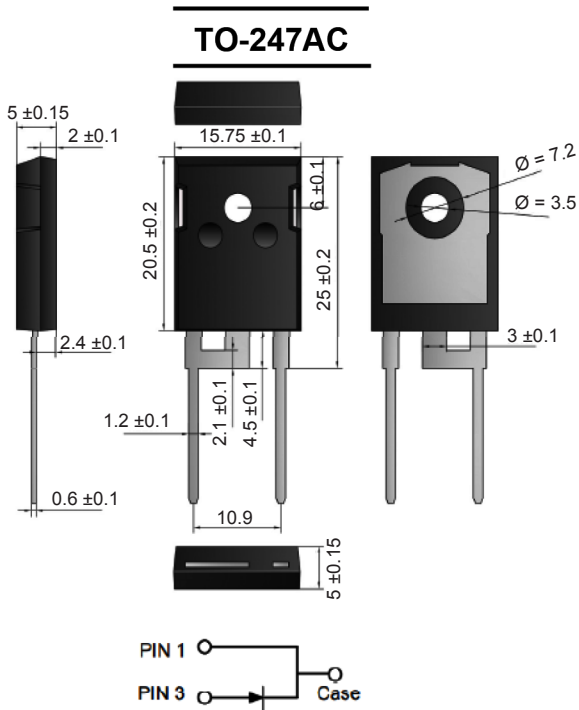


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Dimensions:



Dimensions : Millimetres

Part Number Table

Description	Part Number
Ultra Fast Rectifier	MUR3060

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.