

Super Fast Rectifiers

Reverse Voltage - 400 V

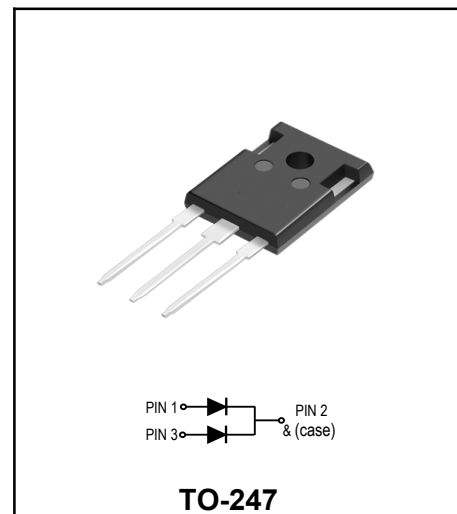
Forward Current - 30 A

FEATURES

- ♦Glass passivated chip junctions
- ♦High Speed recovery time for switching
- ♦mode application
- ♦High Forward Surge Capability
- ♦Low Reverse Current
- ♦Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- ♦Leads: Solderable per mil-std-202, Method 208
- ♦Polarity: as marked
- ♦Mounting torque:5 in-lbs maximum
- ♦Terminals:Puretin plated
- ♦Weight: 5.85 grams



Primary Characteristic

I_F	2*15A
V_{RRM}	400V
I_{FSM}	400A
V_F	1.35V
T_J Max	150°C

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS voltage	V_{RMS}	280	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Maximum Average Forward Rectified Current	per device	30	A
	per diode	15	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	400	A
Operating Temperature Range	T_J	-50 ~ +150	°C
Storage Temperature Range	T_{STG}	-50 ~ +150	°C
Typical Thermal Resistance (Note2)	R_{θJC}	1.5	°C/W

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics	Symbols	Value	Units
Typical Forward Voltage at IF=15A	V_F	1.35	V
Max. DC Reverse Current at Rated DC Blocking Voltage	I_R	5	μA
		250	μA
Maximum Reverse Recovery Time at IF=0.5A, IR=1A, IRR=0.25A	T_{RR}	35	nS

NOTES:

1. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, IRR=0.25A.
2. Thermal resistance from junction to case.

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

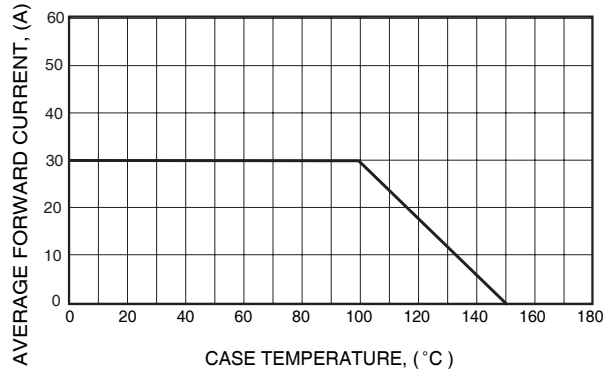


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

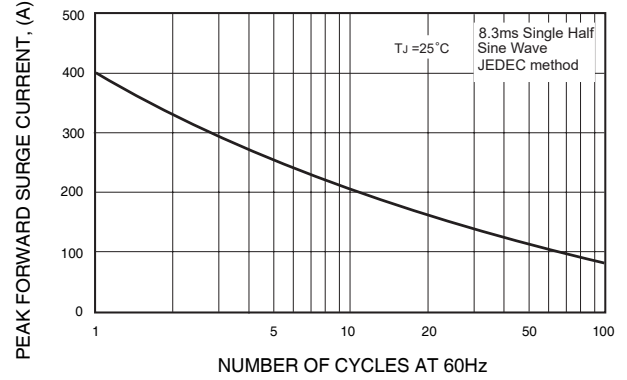


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

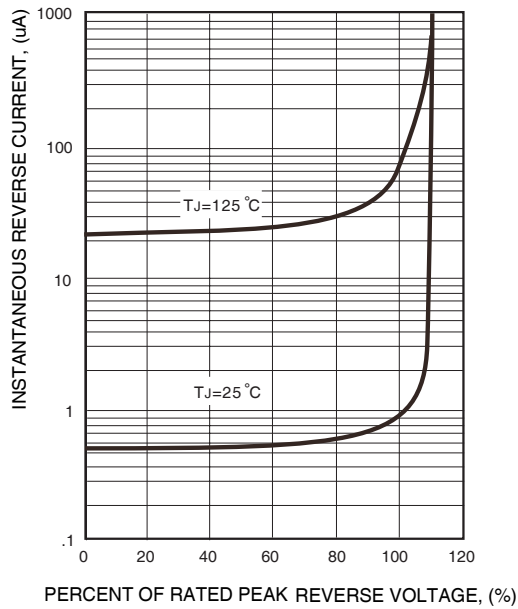
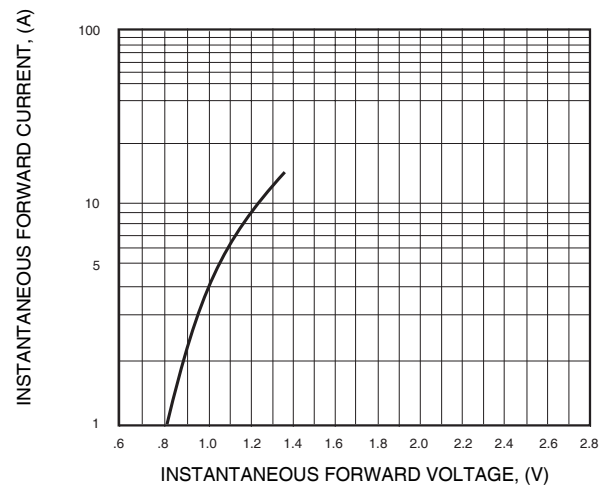
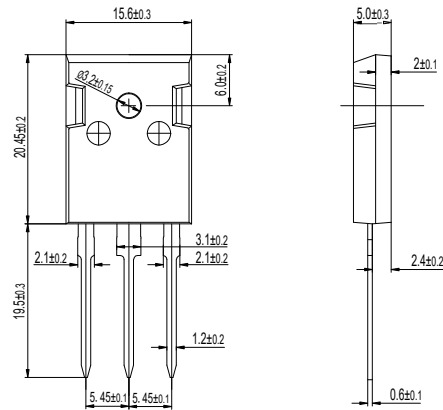


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Package Outline Dimensions millimeters

TO-247



Ordering information

Part Number	Package	Marking	Base Quantity	Delivery mode
MUR3040SPT	TO-247	YFW MUR3040SPT XXXXX	30 pcs / tube	600pcs/box 2400pcs/carton