

Super Fast Rectifiers

Reverse Voltage - 600 V

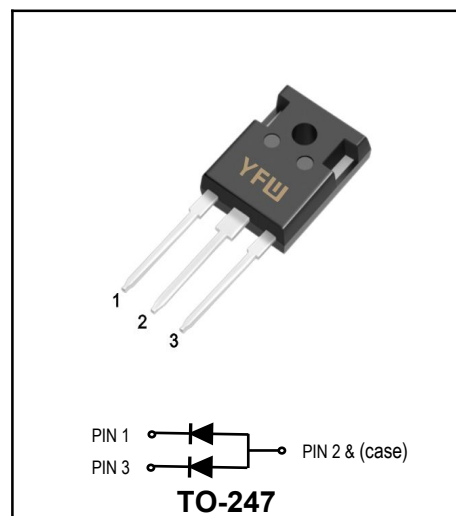
Forward Current - 30 A

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



Primary Characteristic

I_F	2*15A
V_{RRM}	600V
I_{FSM}	250A
V_F	1.85V
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}	600	V
Maximum RMS voltage		V_{RMS}	420	V
Maximum DC Blocking Voltage		V_{DC}	600	V
Maximum Average Forward Rectified Current	per device	I_F	30	A
	per diode		15	
Max.Forward Surge Current ,8.3ms single half sine-wave superimposed on rated load		I_{FSM}	250	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	1.85	V
Max. DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I_R	5	μA
	T _A =125°C		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

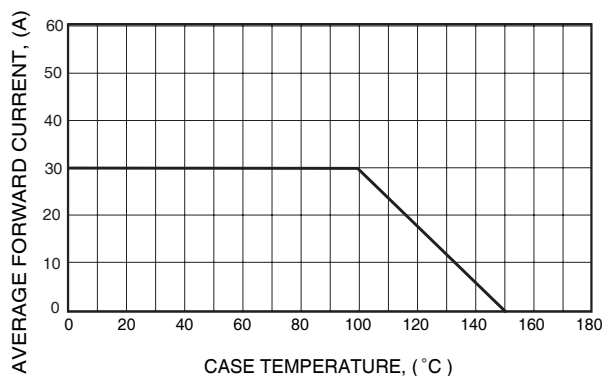


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

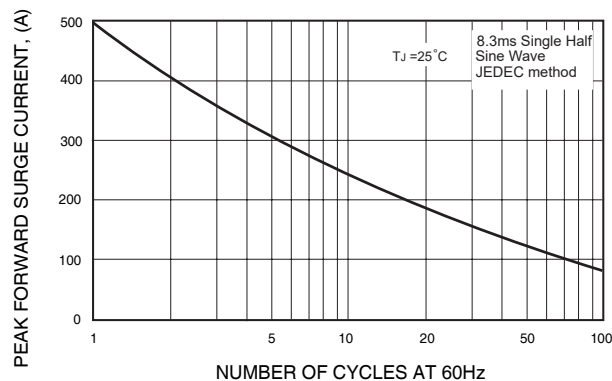


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

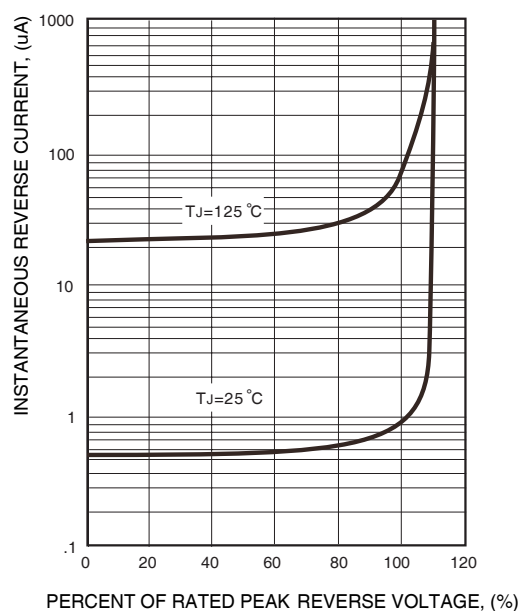
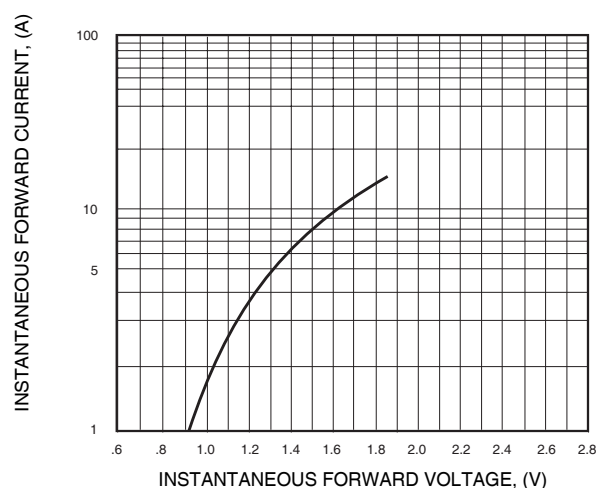
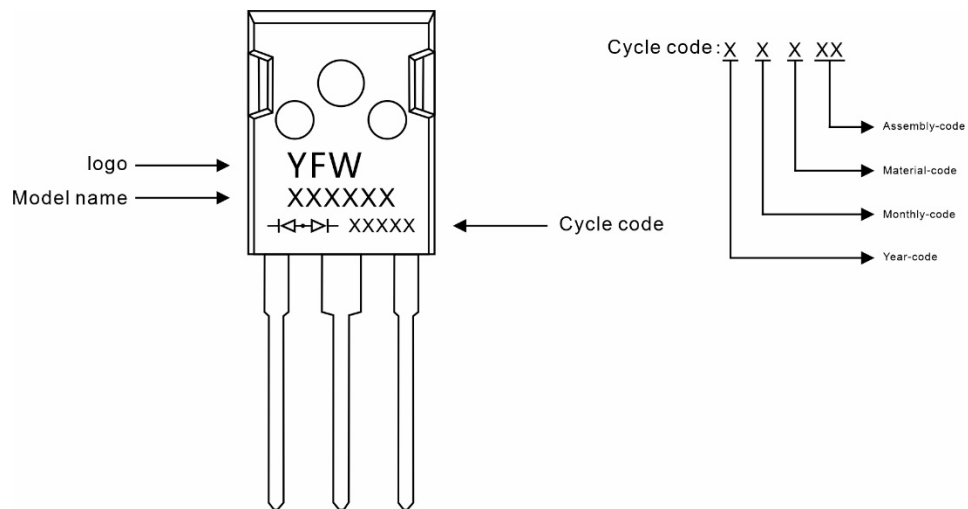


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR3060SPTR	TO-247	0.209oz(5.93g)	30pcs/tube	600PCS/Box 2400PCS/Carton

Package Dimensions

TO-247

Symbol	Dimensions in mm		Dimensions in Inch	
	Min.	Max.	Min.	Max.
A	4.90	5.10	0.193	0.201
A1	1.90	2.10	0.075	0.083
A2	2.29	2.54	0.090	0.100
b	1.00	1.40	0.039	0.055
b1	2.00	2.20	0.079	0.087
b2	3.00	3.20	0.118	0.126
c	0.50	0.70	0.020	0.028
D	15.75	16.05	0.620	0.632
E	20.20	20.80	0.795	0.819
e	5.45 (BSC)		0.215 (BSC)	
e1	10.90 (BSC)		0.429 (BSC)	
F	6.05	6.25	0.238	0.246
F1	5.80	6.00	0.228	0.236
L	20.10	20.40	0.791	0.803
L1	4.05	4.35	0.159	0.171
Φ	3.50	3.70	0.138	0.146

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