

Super Fast Rectifiers

Reverse Voltage - 200V to 600V

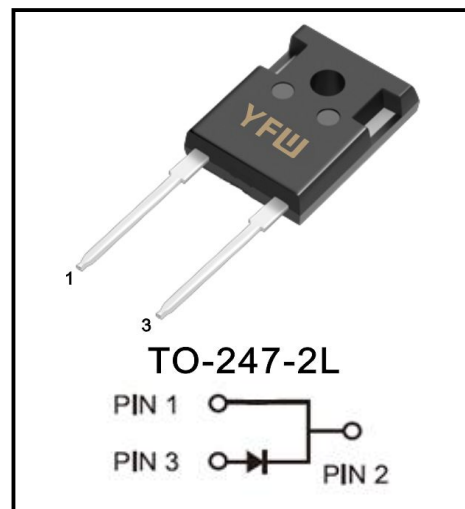
Forward Current - 15A

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C)

RATINGS	SYMBOL	MUR1520SW	MUR1540SW	MUR1560SW	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
DC Blocking Voltage	V_{DC}	200	400	600	V
Average Forward Current	I_F	15			A
Max. forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	250			A
Typical forward voltage per leg at 15A	V_F	1.05	1.35	1.85	V
Max. DC reverse current at rated DC blocking voltage $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_R	5 250			μA
Typical Reverse Recovery Time (Note 1)	T_{RR}	35			nS
Typical thermal resistance(Note 2)	$R_{\theta JC}$	1.5			$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55 ~ +150			$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 ~ +150			$^\circ\text{C}$

Notes: 1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$.
2. Thermal resistance from junction to case.

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

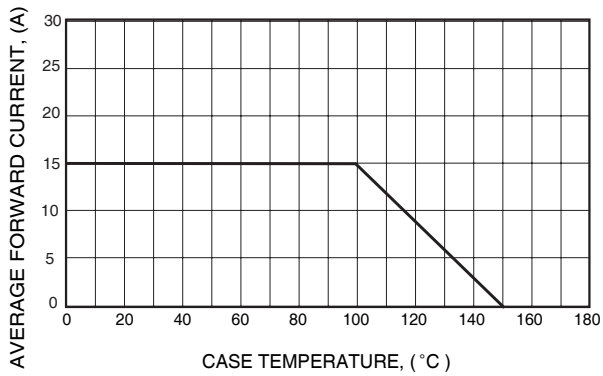


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

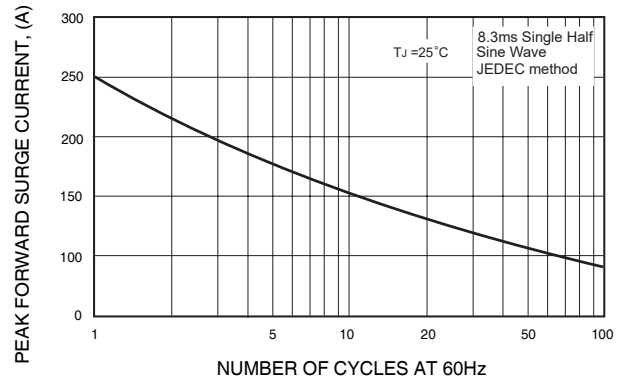


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

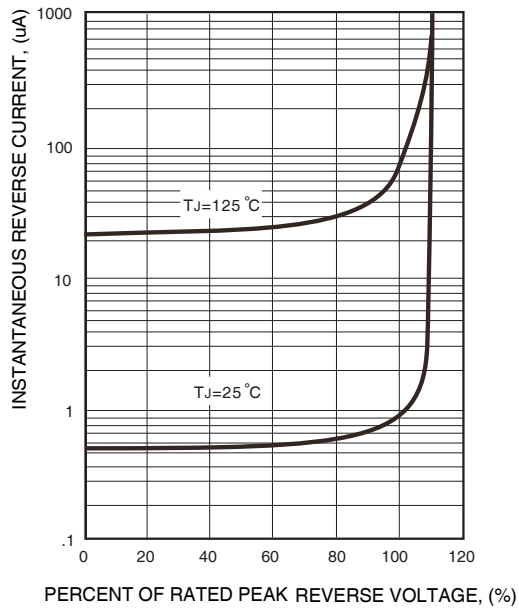
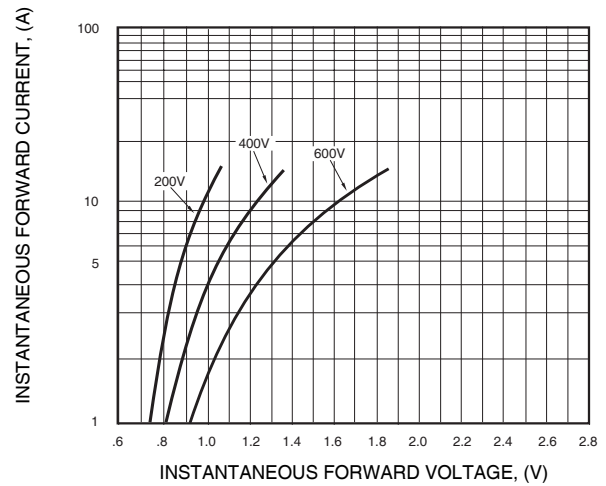
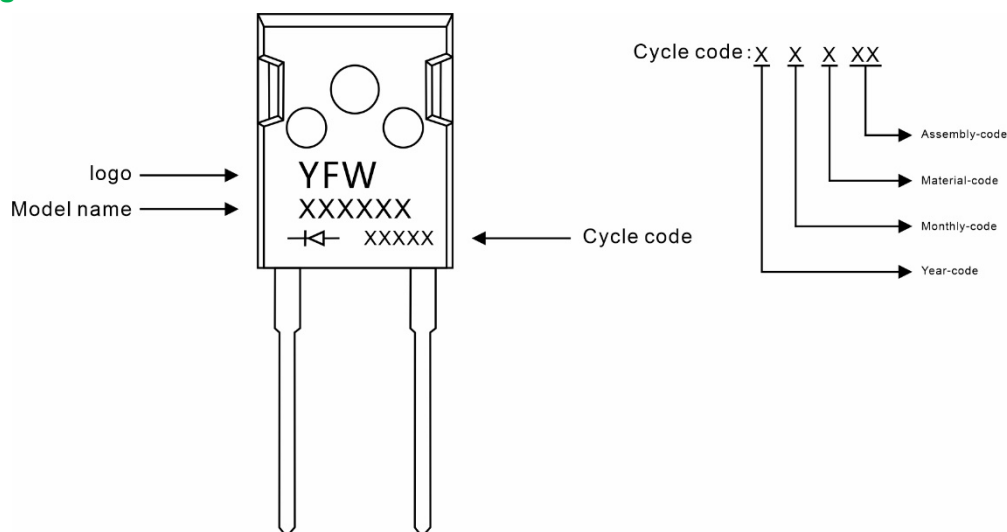


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MUR15××SW	TO-247-2L	0.209oz(5.93g)	30pcs/tube	600PCS/Box 3000PCS/Carton

Package Dimensions

TO-247-2L

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
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
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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