

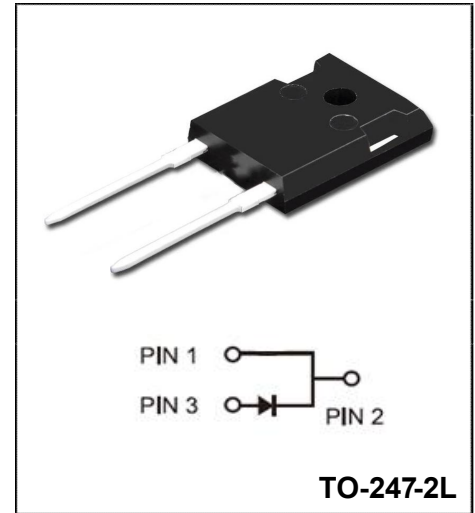
**ULTRAFAST RECOVERY RECTIFIERS**
**Reverse Voltage - 600 V**
**Forward Current - 60A**

**FEATURES**

- ◆ High speed switching capability
- ◆ High current capability
- ◆ High forward surge capability
- ◆ Low power losses, High efficiency
- ◆ High reliability
- ◆ For use in low voltage, high frequency inverters

**MECHANICAL DATA**

- ◆ Case: Molded plastic
- ◆ Polarity: As marked
- ◆ Mounting Position: Any
- ◆ Molded Plastic: UL Flammability Classification Rating 94V-0
- ◆ Lead free in compliance with EU RoHS 2011/65/EU directive
- ◆ Solder bath temperature 275°C maximum, 10s per JESD 22-B106


**Primary Characteristic**

<b>I<sub>o</sub></b>	60A
<b>V<sub>RRM</sub></b>	600V
<b>I<sub>FSM</sub></b>	420A
<b>V<sub>F</sub></b>	1.3V
<b>T<sub>rr</sub></b>	30ns
<b>T<sub>Jmax</sub></b>	150°C

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

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	<b>V<sub>RRM</sub></b>	600	V
Working Peak Reverse Voltage	<b>V<sub>RWM</sub></b>	600	V
Maximum DC Blocking Voltage	<b>V<sub>DC</sub></b>	600	V
Maximum Average Forward Rectified Current	<b>I<sub>o</sub></b>	60	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	<b>I<sub>FSM</sub></b>	420	A
Operating Temperature Range	<b>T<sub>J</sub></b>	150	°C
Storage Temperature Range	<b>T<sub>STG</sub></b>	-40 to +150	°C
Typical Thermal Resistance (Note1)	<b>R<sub>θJC</sub></b>	2	°C/W

**Note1: Thermal resistance from Junction to case per leg mounted on heatsink.**
**Electrical Characteristics (Per Leg) unless otherwise specified**

Characteristics	Symbol	Value		Unit	
Forward Voltage Drop(Note2)	<b>V<sub>F</sub></b>	Typ.	Max.	V	
at I <sub>F</sub> =5A		TA=25°C	0.91		-
		TA=125°C	0.71		-
at I <sub>F</sub> =10A		TA=25°C	1.02		-
		TA=125°C	0.82		-
at I <sub>F</sub> =30A		TA=25°C	1.24		1.59
		TA=125°C	1.06		-
at I <sub>F</sub> =60A		TA=25°C	1.50		2.00
		TA=125°C	1.30		-
Maximum Reverse Current at V <sub>R</sub> =600V		<b>I<sub>R</sub></b>	TA=25°C		0.1
	TA=125°C		15	-	
Maximum Reverse Recovery Time at I <sub>F</sub> =0.5A, I <sub>R</sub> =1A,	<b>T<sub>rr</sub></b>	30	50	ns	

**Note2: Pulse test: 300 μs pulse width, 1 % duty cycle**

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

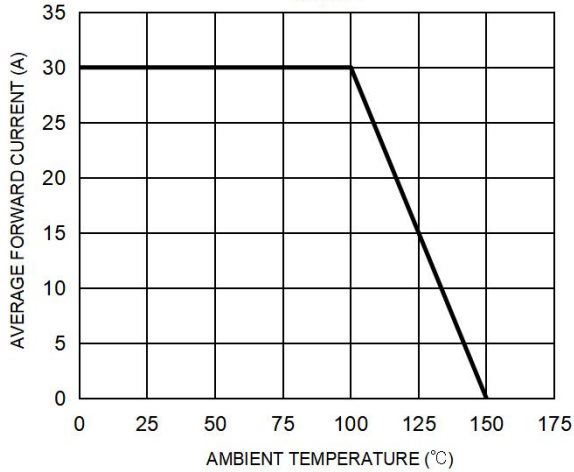


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

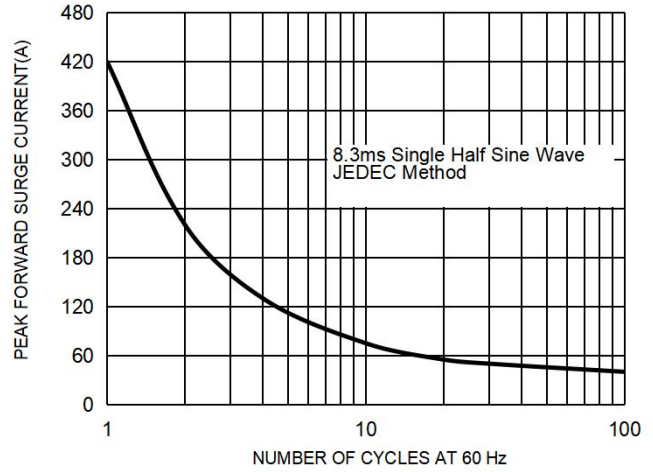


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

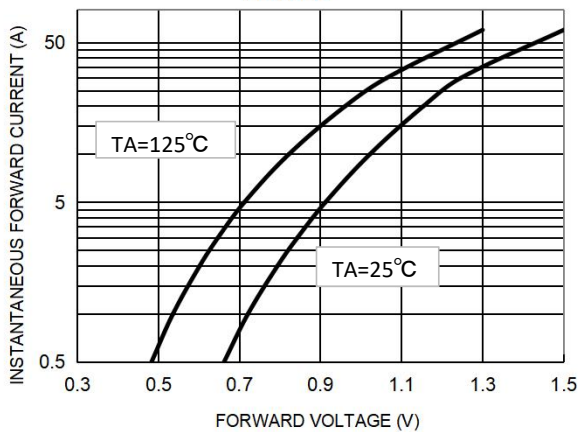
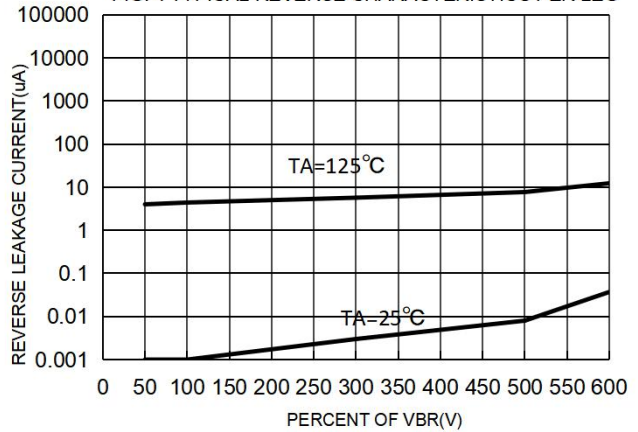
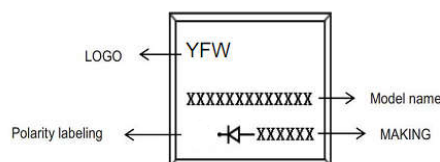


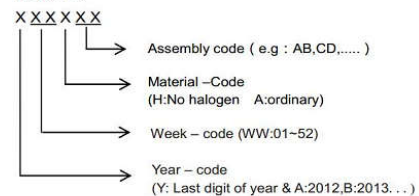
FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



**Marking on the body**



**MAKING:**



**Ordering information**

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MUR6060W	TO-247-2L	0.209oz(5.93g)	30 pcs /tube	600pcs/box 3000pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

TO-247-2L

