

**ULTRAFAST RECOVERY RECTIFIERS**
**Reverse Voltage - 600 V**
**Forward Current - 30A**
**FEATURES**

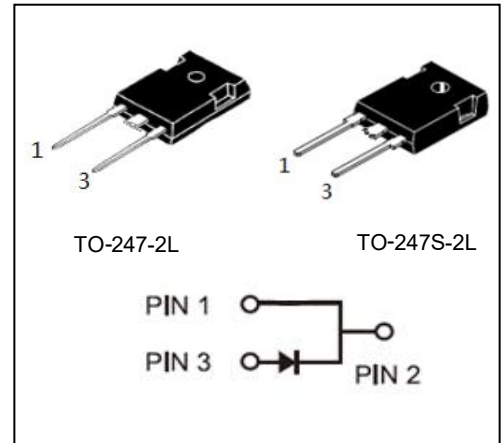
- ◆ High speed switching capability
- ◆ High current capability
- ◆ High forward surge capability
- ◆ Low power losses, High efficiency
- ◆ High reliability
- ◆ For use in low voltage, high frequency inverters

**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**

$I_o$	30A
$V_{RRM}$	600V
$I_{FSM}$	420A
$V_F$	1.06V
$T_{jmax}$	150°C
Assembly code	EP


**Maximum Ratings at Ta=25°C unless otherwise specified**

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	600	V
Working Peak Reverse Voltage	$V_{RWM}$	420	V
Maximum DC Blocking Voltage	$V_{DC}$	600	V
Maximum Average Forward Rectified Current	$I_o$	30	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	420	A
Operating Temperature Range	$T_J$	150	°C
Storage Temperature Range	$T_{STG}$	-40 to +150	°C
Typical Thermal Resistance (Note1)	$R_{\theta JC}$	2	°C/W

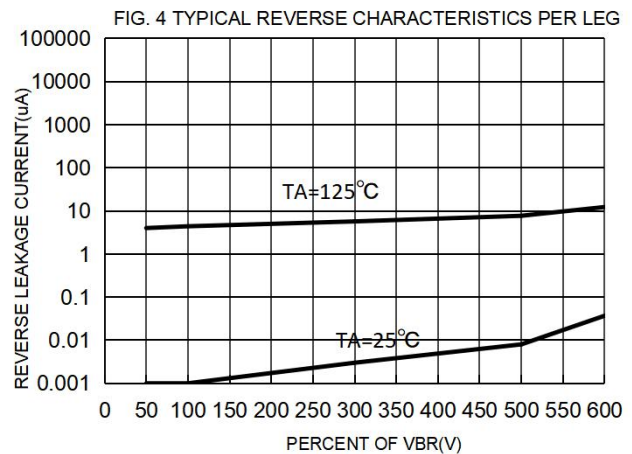
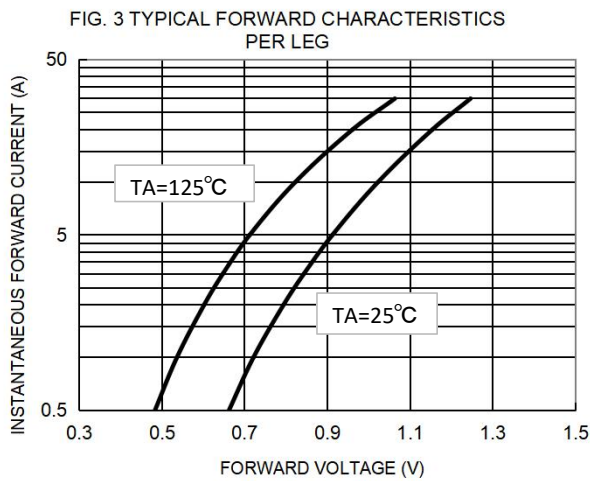
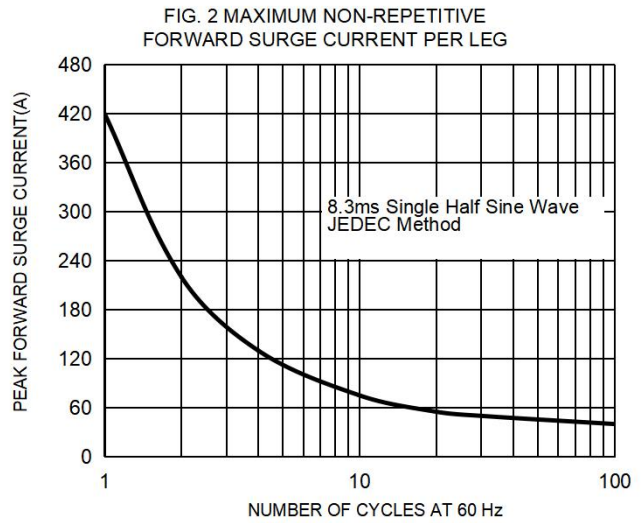
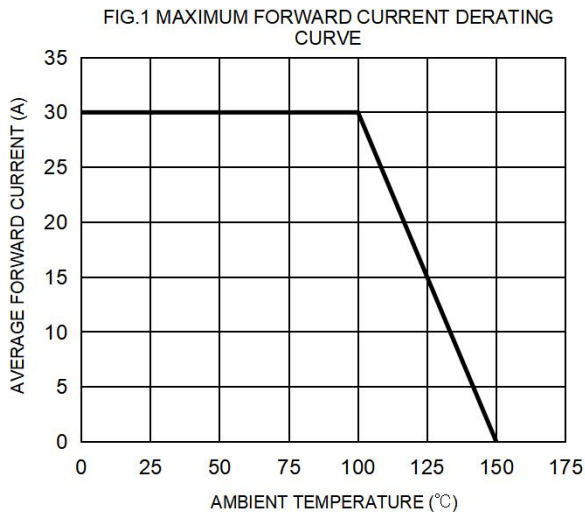
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

**Electrical Characteristics unless otherwise specified**

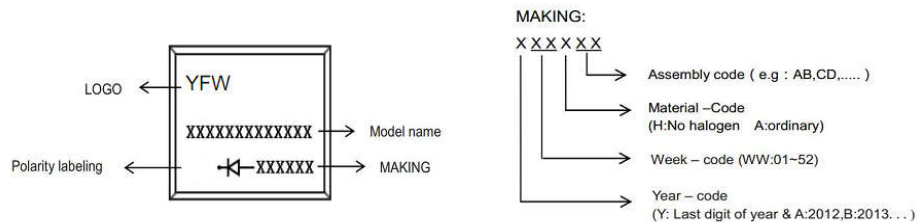
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)		$V_F$	Typ.	Max.	V
at $I_F=5A$	TA=25°C		0.91	-	
	TA=125°C		0.71	-	
at $I_F=10A$	TA=25°C		1.02	-	
	TA=125°C		0.82	-	
at $I_F=30A$	TA=25°C		1.24	1.59	
	TA=125°C	1.06	-		
Maximum Reverse Current at $V_R=600V$	TA=25°C	$I_R$	0.1	1	μA
	TA=125°C		15	-	μA
Maximum Reverse Recovery Time at $I_F=0.5A, I_R=1A,$		$T_{rr}$	-	50	ns

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

**RATINGS AND CHARACTERISTIC CURVES**



**Marking on the body**



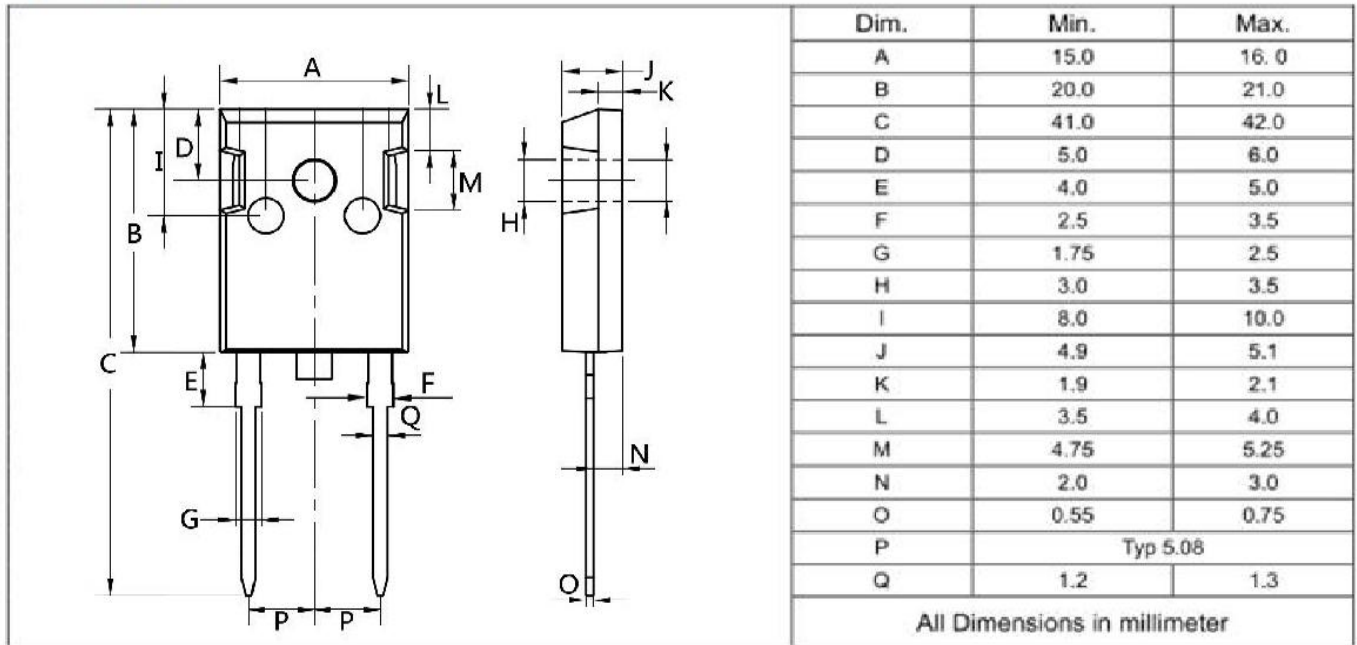
**Ordering information**

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MUR3060W	TO-247-2L	0.209oz(5.93g)	30 pcs / tube	600pcs/box 3000pcs/carton
MUR3060WS	TO-247S-2L	0.158oz(4.48g)	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**



**TO-247S-2L**

