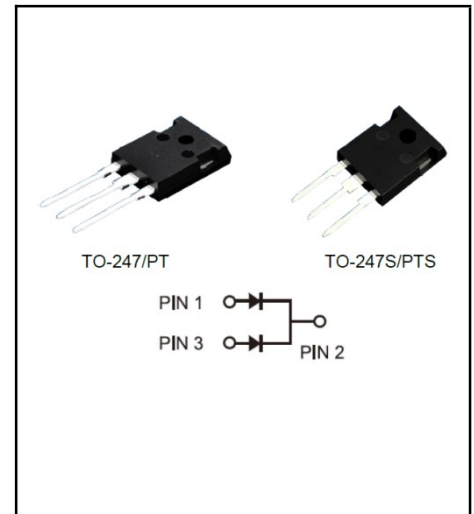


ULTRAFST RECOVERY RECTIFIERS
Reverse Voltage - 1200 V
Forward Current - 30 A
FEATURES

- ◆ 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	2*15A
V_{RRM}	1200V
I_{FSM}	160A
V_F	1.49V
T_J Max	175°C

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

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1200	V
Working Peak Reverse Voltage	V_{RWM}	840	V
Maximum DC Blocking Voltage	V_{DC}	1200	V
Maximum Average Forward Rectified Current	Per Leg	15	A
	Total	30	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	160	A
Operating Temperature Range	T_J	175	°C
Storage Temperature Range	T_{STG}	-55 to +175	°C
Typical Thermal Resistance (Note 1)	R_{θJC}	2	°C/W

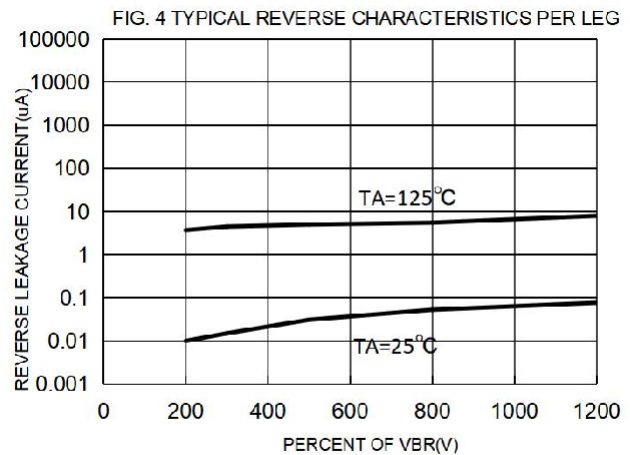
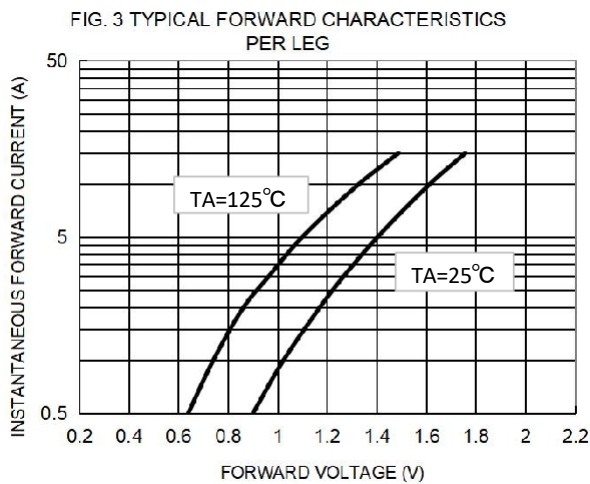
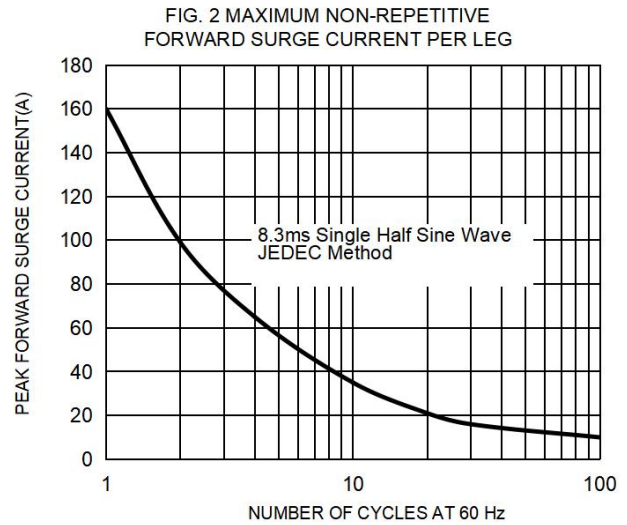
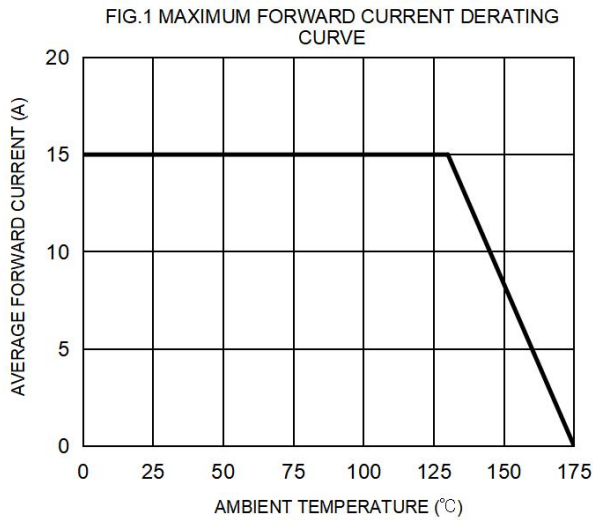
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) unless otherwise specified

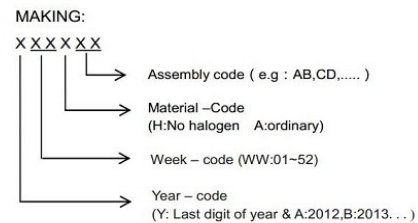
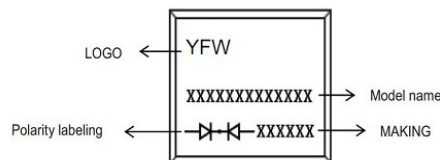
Characteristics	Symbol	Value		Unit	
Forward Voltage Drop(Note2)	V_F	Typ.	Max.	V	
at I _F =5A		TA=25°C	1.40		-
		TA=125°C	1.10		-
at I _F =10A		TA=25°C	1.61		-
		TA=125°C	1.33		-
at I _F =15A		TA=25°C	1.76		2.30
		TA=125°C	1.49		-
Maximum Reverse Current at V _R =1200V		TA=25°C	0.1		20
	TA=125°C	8	-	μA	
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A,	T_{rr}	-	65	ns	

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

RATINGS AND CHARACTERISTIC CURVES



Marking on the body

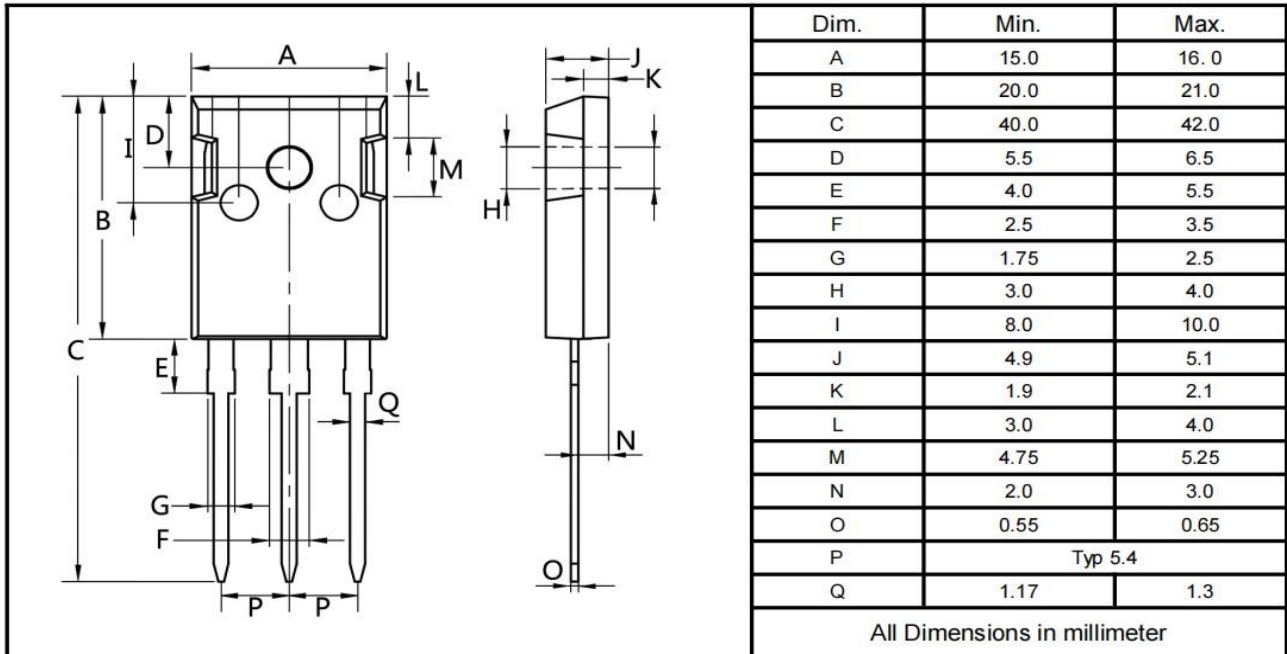


Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MUR30120PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 3000pcs/carton
MUR30120PTS	TO-247S	0.158oz(4.48g)	30 pcs / tube	600pcs/box 3000pcs/carton

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

TO-247



TO-247S

