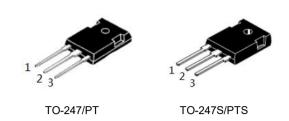
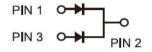


ULTRAFAST RECOVERY RECTIFIERS





Primary Characteristic		
I _o	2*15A	
V_{RRM}	200V	
I _{FSM}	280A	
V _F	0.83V	
T₃max	175℃	

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



APPLICATIONS

Fast recovery diode, mainly used for rectification, used in high-power equipment, The express and ultrafast recovery diodes are suitable for high frequency and ultra high frequency circuits, respectively

MECHANICAL DATA

Case: Molded plasticPolarity: As markedMounting 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

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified				
Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	200	V
Working Peak Reverse Voltage		V_{RWM}	200	V
Maximum DC Blocking Voltage		V_{DC}	200	V
Maximum Average Forward Rectified	Per Leg	_	15	А
Current	Total	10	30	A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	280	А
Operating Temperature Range		TJ	175	°C
Storage Temperature Range		T _{STG}	-55 to +175	°C
Typical Thermal Resistance (Note1)		$R_{\theta JC}$	2	°C/W

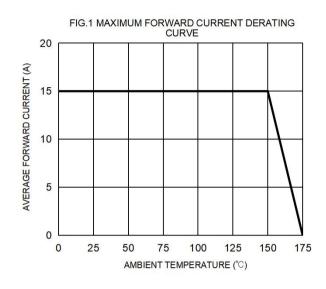
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

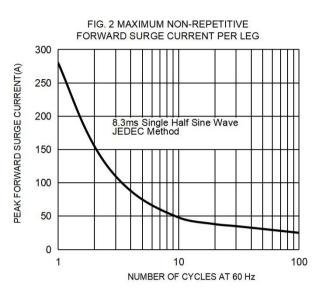
Electrical Characteristics (Per Leg) unless otherwise specified					
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I _F =3A	TA=25°C	V _F	0.78	-	V
	TA=125°C		0.64	-	
at L =5A	TA=25°C		0.83	-	
at I _F =5A	TA=125°C		0.70	-	
at I _F =15A	TA=25°C		0.94	1.05	
	TA=125°C		0.83	-	·
Maximum Reverse Current at V _R =200V	TA=25°C	- I _R	0.1	10	μΑ
	TA=125°C		2	-	μΑ
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A,		Trr	-	30	ns

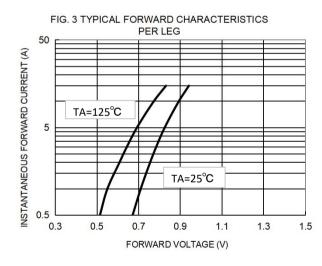
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

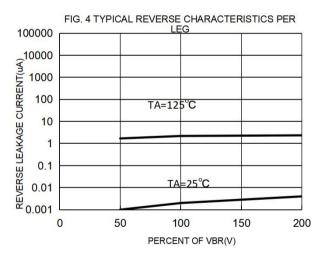


RATINGS AND CHARACTERISTIC CURVES





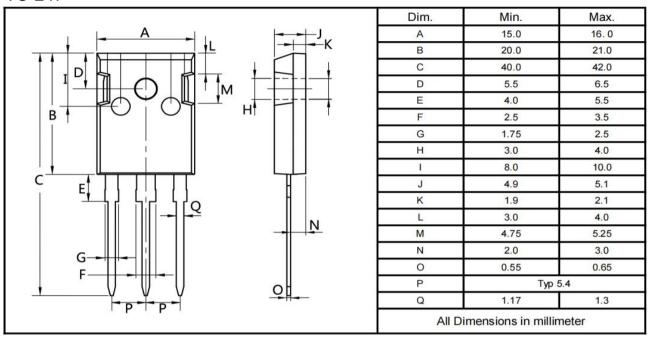




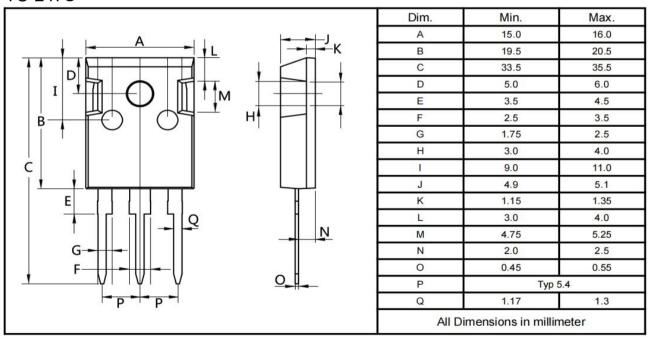


Package Outline Dimensions millimeters

TO-247

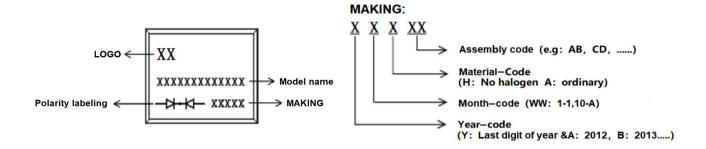


TO-247S





Marking on the body



Ordering information					
Part Number	Package	Unit Weight	Base Quantity	Delivery mode	
MUR3020PT-B	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 3000pcs/carton	
MUR3020PTS-B	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.

packing instruction

PKG	最小包装	内盒	外箱
TO-247 TO-247S			
	30PCS/管	600pcs/盒	3000pcs/箱

Notice

- 1. All product, product specifications and data are subject to change without notice to improve. The right to explain is owned by LINGXUN electronics company.
- 2. Confirm that operation temperature is within the specified range described in the product specification. Avoid applying power exceeding normal rated power;

exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.

3. LINGXUN electronics shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this document.