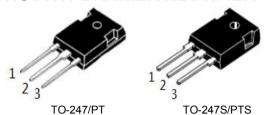
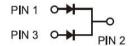


MBR60100PT/PTS

SCHOTTKY BARRIER RECTIFIER





Primary Characteristic				
I _O	2*30A			
V_{RRM}	100V			
I _{FSM}	450A			
V_{F}	0.69V			
T₃max	150℃			
Assembly code	XX			

FEATURES

- Low forward voltage
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- · Guarding for over voltage protection



APPLICATIONS

Low VF Schottky barrier rectifier are designed for high frequency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

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}	100	V		
Working Peak Reverse Voltage	V_{RWM}	100	V		
Maximum DC Blocking Voltage	V_{DC}	100	V		
Maximum Average Forward Rectified Current Total	Io	30	^		
		60	Α		
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave	I _{FSM}	450	Α		
Operating Temperature Range	T_J	150	°C		
Storage Temperature Range	T_{STG}	-40 to +150	°C		
Typical Thermal Resistance (Note1)	R _{0 JC}	2	°C/W		

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

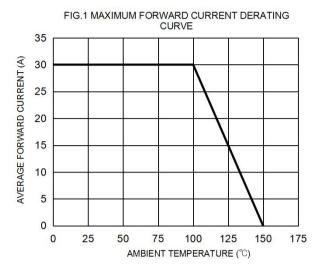
Electrical Characteristics (Pe	er Leg) unles	s otherwi	se specified		
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I₅=5A	TA=25°C	V _F	0.60	-	V
at I _F -5A	TA=125°C		0.49	1	
at I _F =10A	TA=25°C		0.69	-	
	TA=125°C		0.56	-	
at I _F =30A	TA=25°C		0.81	0.85	
	TA=125°C		0.69	-	
Maximum Reverse Current at V _R =100V	TA=25°C	I _R	5	10	μΑ
IMAXIIIIdiii Reverse Current at V _R =100V	TA=125°C		4	-	mA

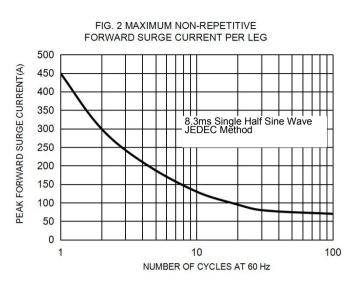
Note2:Pulse test: 300 μ s pulse width, 1 % duty cycle

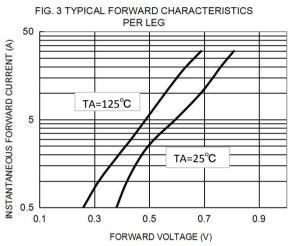


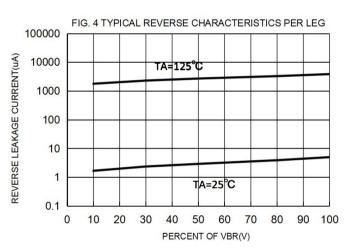
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RATINGS AND CHARACTERISTIC CURVES

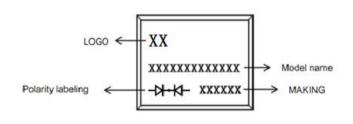


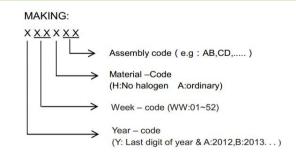






Marking on the body





Ordering information					
Part Number	Package	Unit Weight	Base Quantity	Delivery mode	
MBR60100PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 2400pcs/carton	
MBR60100PTS	TO-247S	0.158oz(4.48g)	30 pcs / tube	600pcs/box 2400pcs/carton	

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

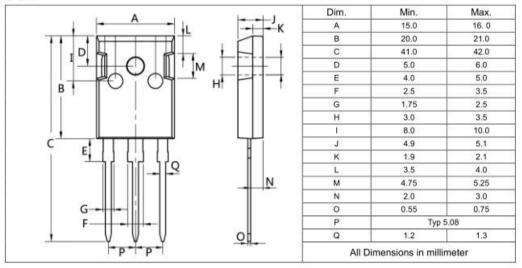
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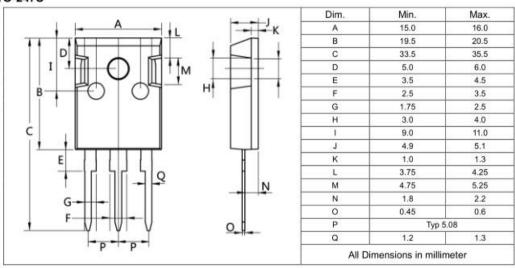
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Package Outline Dimensions millimeters

TO-247



TO-247S



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.

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