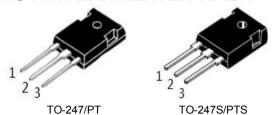
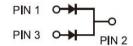


MBR40200PT/PTS

SCHOTTKY BARRIER RECTIFIER





Primary Characteristic			
I _o	2*20A		
V_{RRM}	200V		
I _{FSM}	450A		
V_{F}	0.73V		
T _J max	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}	200	V		
Working Peak Reverse Voltage	V_{RWM}	200	V		
Maximum DC Blocking Voltage	V_{DC}	200	V		
Maximum Average Forward Rectified Current Total		20	^		
	I _O	40	А		
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)	$R_{\theta JC}$	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 I₅=5A	TA=25°C	V _F	0.73	-	V
at I _F =5A	TA=125°C		0.58	1	
at I _F =10A	TA=25°C		0.79	-	
	TA=125°C		0.65	-	
at I _F =20A	TA=25°C		0.86	0.89	
	TA=125°C		0.73	-	
Maximum Reverse Current at V _R =200V	TA=25°C	I _R	2	10	μA
iviaximum Reverse Current at V _R -200V	TA=125°C		2	-	mA

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



MBR40200PT/PTS

RATINGS AND CHARACTERISTIC CURVES



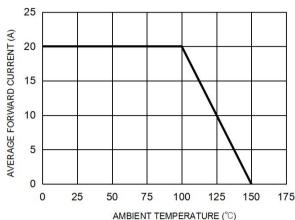


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

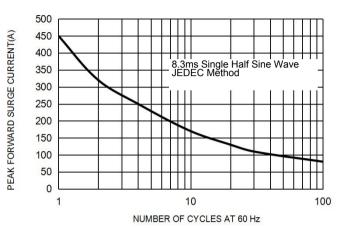


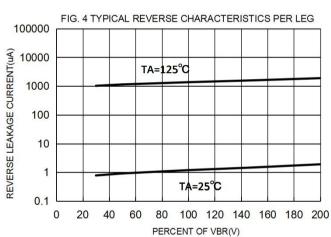
FIG. 3 TYPICAL FORWARD CHARACTERISTICS
PER LEG

TA=125°C

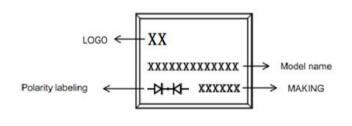
TA=25°C

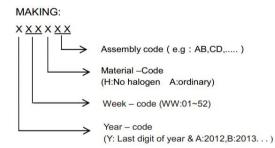
TA=25°C

FORWARD VOLTAGE (V)



Marking on the body





Ordering infor	mation			
Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MBR40200PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 2400pcs/carton
MBR40200PTS	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.

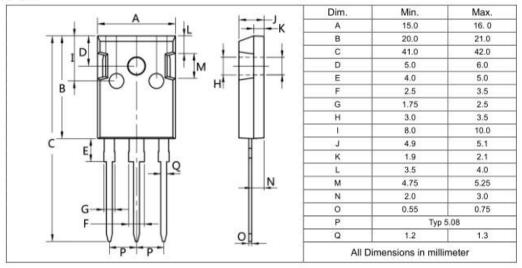
www.dglxdz.com 2 of 3 Date:21/12/2018 Rev:02



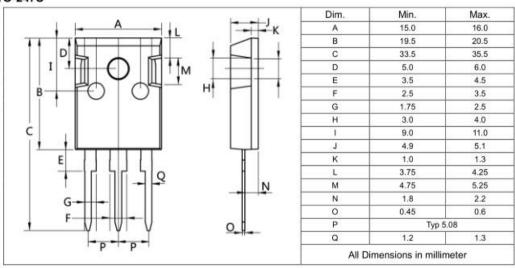
MBR40200PT/PTS

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.

www.dglxdz.com 3 of 3 Date:21/12/2018 Rev:02