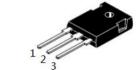


# MBR6045PT/PTS

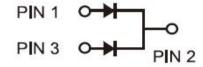
## SCHOTTKY BARRIER RECTIFIER





TO-247/PT

TO-247S/PTS



#### Primary Characteristic

Ι <sub>ο</sub>	2*30A	
V <sub>RRM</sub>	45V	
I <sub>FSM</sub>	450A	
V <sub>F</sub>	0.56V	
T <sub>J</sub> max	<b>150</b> ℃	
Assembly code	BY	

### 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 freqency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

#### **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  $^\circ\!\!\!\!^\circ C$  maximum,10s  $\,$  per JESD 22-B106  $\,$

5°C unless (	otherwise specified	
Symbol	Value	Unit
V <sub>RRM</sub>	45	V
V <sub>RWM</sub>	45	V
V <sub>DC</sub>	45	V
	30	٨
1 <sub>0</sub>	60	A
I <sub>FSM</sub>	450	А
TJ	150	°C
T <sub>STG</sub>	-40 to +150	°C
R <sub>0.IC</sub>	2	°C/W
	Symbol V <sub>RRM</sub> V <sub>RWM</sub> V <sub>DC</sub> I <sub>0</sub> I <sub>FSM</sub> T <sub>J</sub> T <sub>STG</sub>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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

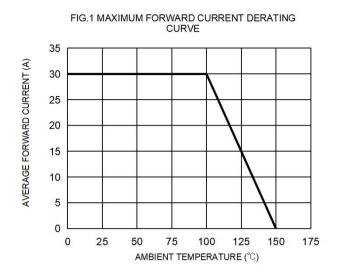
# Electrical Characteristics (Per Leg) unless otherwise specified

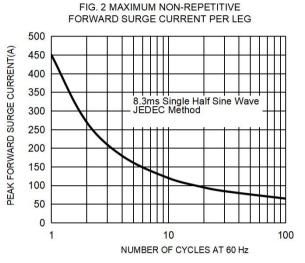
Characteristics	6	Symbol	V	alue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I <sub>F</sub> =30A	TA=25°C	$V_{F}$	0.56	0.61	V
	TA=125°C		0.51	-	
Maximum Reverse Current at V <sub>R</sub> =45V	TA=25°C	- I <sub>R</sub>	20	50	μA
Maximum Reverse Current at V <sub>R</sub> -45V	TA=125°C		7	-	mA

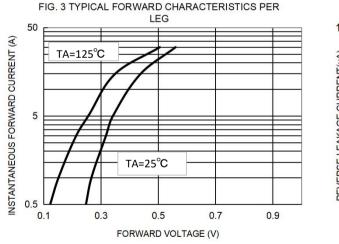
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

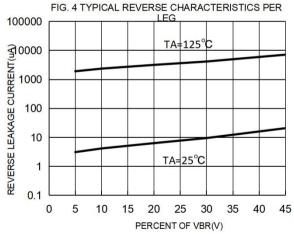


# RATINGS AND CHARACTERISTIC CURVES





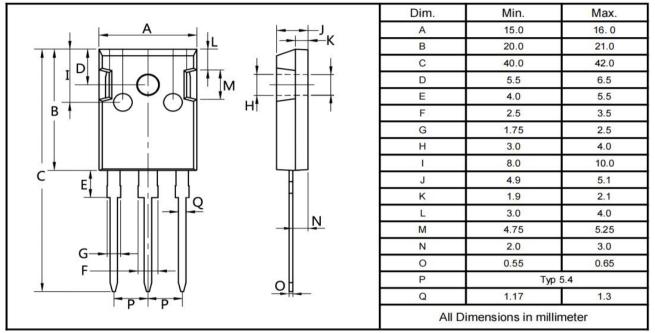




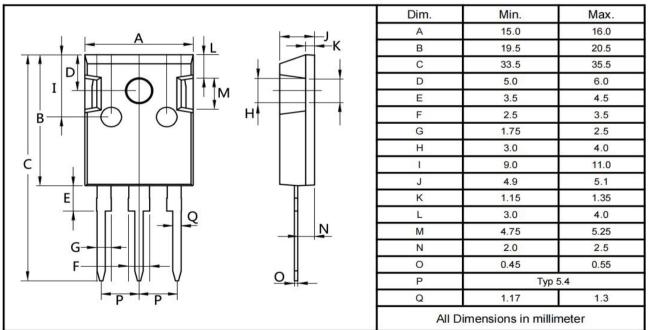


## Package Outline Dimensions millimeters

#### TO-247

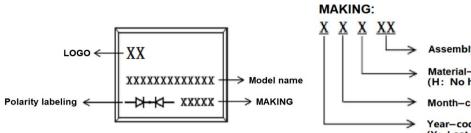


### TO-247S



# MBR6045PT/PTS

# Marking on the body



# Assembly code (e.g: AB, CD, .....) Material-Code (H: No halogen A: ordinary) Month-code (WW: 1-1,10-A) Year-code (Y: Last digit of year &A: 2012, B: 2013.....)

#### Ordering information

ordoning information				
Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MBR6045PT	TO-247	0.209oz(5.93g)	30 pcs / tube	600pcs/box 3000pcs/carton
MBR6045PTS	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	<b>3000pcs/</b> 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.