



MBR6030PT - MBR6045PT

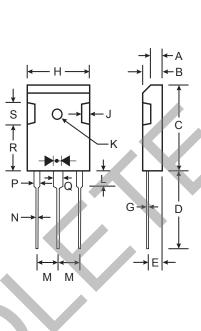
60A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

- Case: TO-3P
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Bright Tin. Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Ordering Information: See Last Page
- Marking: Type Number
- Weight: 5.6 grams (approximate)



	TO-3P							
Dii	n	Min	Max					
A		1.88	2.08					
В		4.68	5.36					
С		20.63	22.38					
D		18.5	21.5					
E		2.1	2.4					
G		0.51	0.76					
Н		15.38	16.25					
J		1.90	2.70					
К		2.9Ø	3.65Ø					
L		3.78	4.50					
M		5.2	5.7					
N		0.89	1.53					
P		1.82	2.46					
Q		2.92	3.23					
R		11.70	12.84					
S			6.10					
AI	All Dimensions in mm							

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

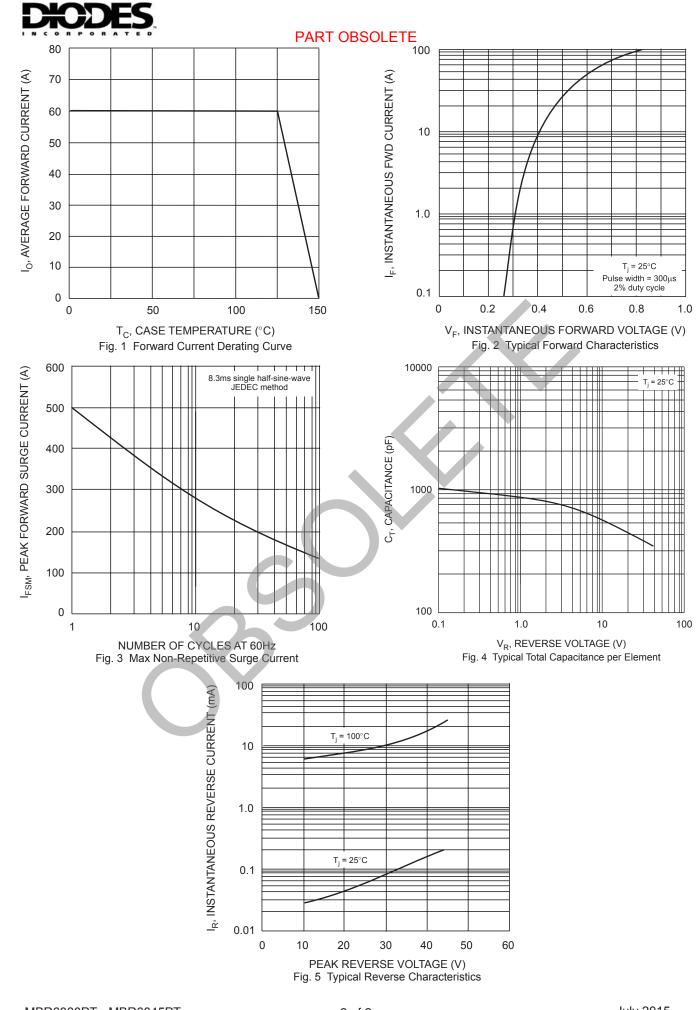
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MBR 6030PT	MBR 6035PT	MBR 6040PT	MBR 6045PT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		30	35	40	45	V
RMS Reverse Voltage	V _{R(RMS)}	21	25	28	32	V
Average Rectified Output Current @ $T_C = 125^{\circ}C$ (Note 1)		60			А	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		500			А	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			0.	62 55 75		V
Peak Reverse Current@ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_C = 100^{\circ}C$.0 0		mA
Typical Total Capacitance (Note 2)		650			pF	
Typical Thermal Resistance Junction to Case (Note 1)		1.0				°C/W
Operating and Storage Temperature Range		-55 to +150				°C

Notes: 1. Thermal resistance junction to case mounted on heatsink.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.



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PART DISCONTINUED

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OBSOLET

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PART OBSOLETE

Ordering Information (Note 4)

Device	Packaging	Shipping	
MBR6030PT	TO-3P	30/Tube	
MBR6035PT	TO-3P	30/Tube	
MBR6040PT	TO-3P	30/Tube	
MBR6045PT	TO-3P	30/Tube	

Notes: 4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf

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