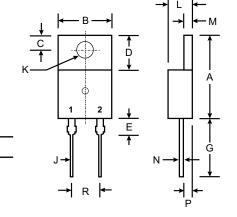




Features

- 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
- Plastic Material: UL Flammability Classification Rating 94V-0



Pin 2 **0**-

TO-220AC							
Dim	Min	Max					
Α	14.22	15.88					
В	9.65	10.67					
С	2.54	3.43					
D	5.84	6.86					
E	_	6.35					
G	12.70	14.73					
J	0.51	1.14					
K	3.53Ø	4.09∅					
L	3.56	4.83					
М	1.14	1.40					
N	0.30	0.64					
Р	2.03	2.92					
R	4.83	5.33					
All Dimensions in mm							

Mechanical Data

Case: Molded Plastic

• Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: See Diagram

Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number

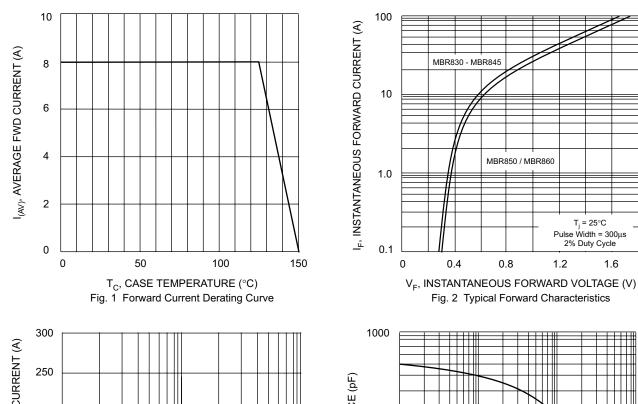
Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

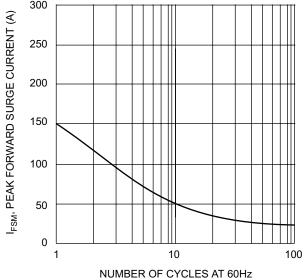
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

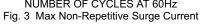
Characteristic	Symbol	MBR 830	MBR 835	MBR 840	MBR 845	MBR 850	MBR 860	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage		21	24.5	28	31.5	35	42	٧
Average Rectified Output Current (Note 1) @ T _C = 125	5°C Io		•	8	.0			А
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		150						А
Repetitive Peak Reverse Surge Current @ $t \le 2.0 \mu s$		1.0						Α
Forward Voltage Drop	5°C V _{FM}		0.	57 70 84		0.	70 80 95	٧
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		0.1 15					mA	
Typical Junction Capacitance (Note 2)		250						pF
Typical Thermal Resistance Junction to Case (Note 1)		3.0						K/W
Voltage Rate of Change (Rated V _R)		1000						V/µs
Operating and Storage Temperature Range		-65 to +150					·	°C

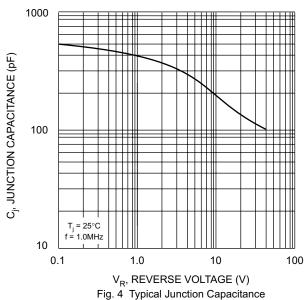
Notes: 1. Thermal resistance junction to case mounted on heatsink.

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









MBR850 / MBR860

8.0

T_j = 25°C Pulse Width = 300μs 2% Duty Cycle

1.6

1.2