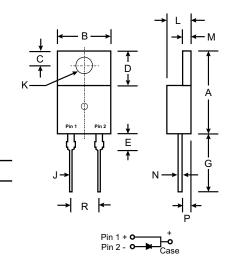


MBR1630 - MBR1660

16A 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 Applications
- Plastic Material: UL Flammability Classification Rating 94V-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	3.53∅	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 @ T_A = 25°C unless otherwise specified

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

Characteristic		MBR 1630	MBR 1635	MBR 1640	MBR 1645	MBR 1650	MBR 1660	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	V _{R(RMS)}	21	24.5	28	31.5	35	42	٧
Average Rectified Output Current (Note 1) @ T _C = 125°C	lo	16				А		
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150				А		
Forward Voltage Drop	V _{FM}	0.63 0.75 0.57 0.65					٧	
		0.2 40		1.0 50		mA		
Typical Junction Capacitance (Note 2)		450					pF	
Typical Thermal Resistance Junction to Case (Note 1)		1.5 3				3	°C/W	
Voltage Rate of Change (Rated V _R)		1000 10,000				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.

