

# MBR1080G, MBR1090G, MBR10100G, NRVB10100G



**ON Semiconductor®**

<http://onsemi.com>

## SWITCHMODE Power Rectifiers

### Features

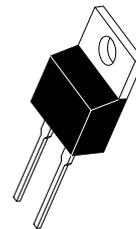
- Guard-Ring for Stress Protection
- Low Forward Voltage
- 175°C Operating Junction Temperature
- Epoxy Meets UL 94 V-0 @ 0.125 in
- Low Power Loss/High Efficiency
- High Surge Capacity
- Low Stored Charge Majority Carrier Conduction
- AEC-Q101 Qualified and PPAP Capable
- NRVB Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements
- All Packages are Pb-Free\*

### Mechanical Characteristics

- Case: Epoxy, Molded
- Weight: 1.9 Grams (Approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- ESD Rating:
  - ◆ Human Body Model = 3B
  - ◆ Machine Model = C

## SCHOTTKY BARRIER RECTIFIERS

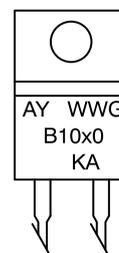
**10 AMPERES, 80 to 100 VOLTS**



**TO-220AC  
CASE 221B**



### MARKING DIAGRAM



- A = Assembly Location
- Y = Year
- WW = Work Week
- G = Pb-Free Package
- B10x0 = Device Code
- x = 8, 9 or 10
- KA = Diode Polarity

### ORDERING INFORMATION

Device	Package	Shipping
MBR1080G	TO-220 (Pb-Free)	50 Units/Rail
MBR1090G	TO-220 (Pb-Free)	50 Units/Rail
MBR10100G	TO-220 (Pb-Free)	50 Units/Rail
NRVB10100G	TO-220 (Pb-Free)	50 Units/Rail

\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.