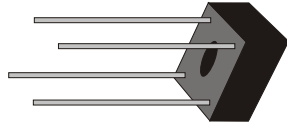


# BR1005 THRU BR1010

**GW**

## SINGLE PHASE 10 AMP BRIDGE RECTIFIERS



### FEATURES

- \* Low forward voltage
- \* Low leakage current
- \* Mounting: Hole thru for #6 screw
- \* Mounting position: Any

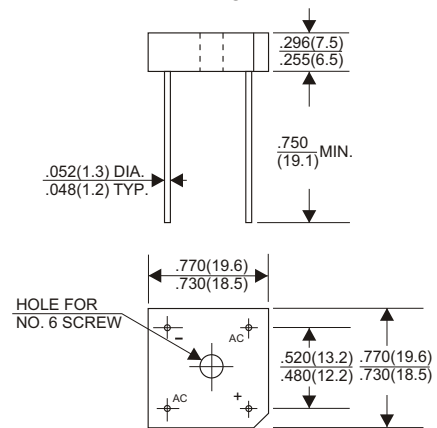
### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

10.0 Amperes

#### BR-8



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| TYPE NUMBER                                                                                           | BR1005     | BR101 | BR102 | BR104 | BR106 | BR108 | BR1010 | UNITS |
|-------------------------------------------------------------------------------------------------------|------------|-------|-------|-------|-------|-------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                                | 50         | 100   | 200   | 400   | 600   | 800   | 1000   | V     |
| Maximum RMS Voltage                                                                                   | 35         | 70    | 140   | 280   | 420   | 560   | 700    | V     |
| Maximum DC Blocking Voltage                                                                           | 50         | 100   | 200   | 400   | 600   | 800   | 1000   | V     |
| Maximum Average Forward Rectified Current<br>.375"(9.5mm) Lead Length at Ta=50°C                      | 10         |       |       |       |       |       |        | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 240        |       |       |       |       |       |        | A     |
| Maximum Forward Voltage Drop per Bridge Element at 5.0A D.C.                                          | 1.0        |       |       |       |       |       |        | V     |
| Maximum DC Reverse Current<br>Ta=25°C                                                                 | 10         |       |       |       |       |       |        | μA    |
| at Rated DC Blocking Voltage<br>Ta=100°C                                                              | 500        |       |       |       |       |       |        | μA    |
| Operating Temperature Range, Tj                                                                       | -65 — +150 |       |       |       |       |       |        | °C    |
| Storage Temperature Range, Tstg                                                                       | -65 — +150 |       |       |       |       |       |        | °C    |

## RATING AND CHARACTERISTIC CURVES (BR1005 THRU BR1010)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

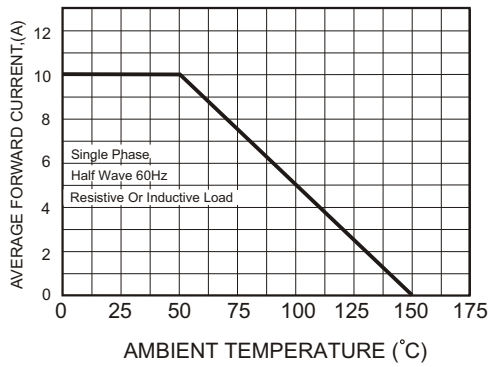


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

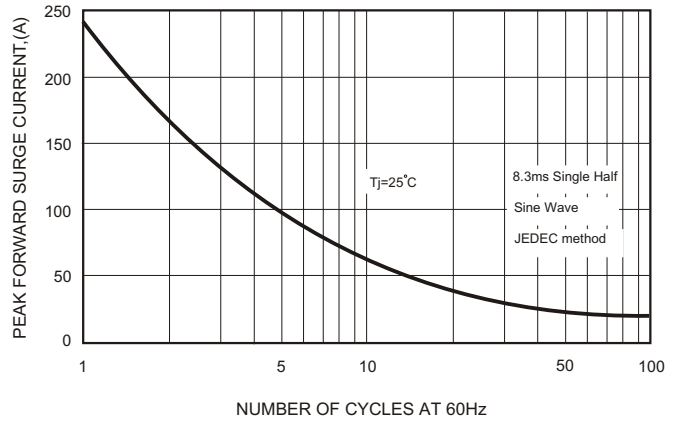


FIG.3-TYPICAL FORWARD CHARACTERISTICS

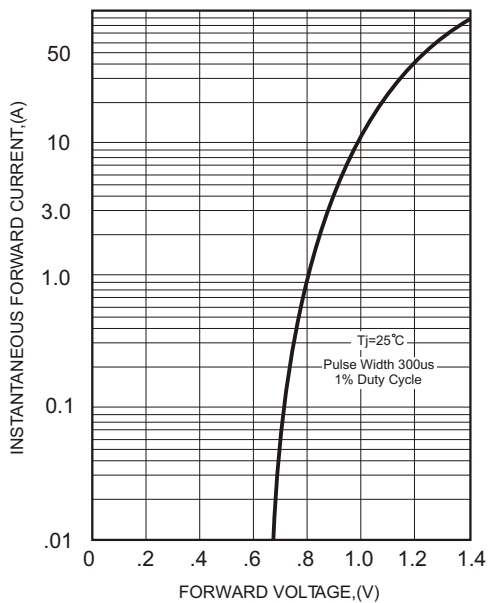


FIG.4-TYPICAL REVERSE CHARACTERISTICS

