

## BR10/15/25/35/50A -G SERIES

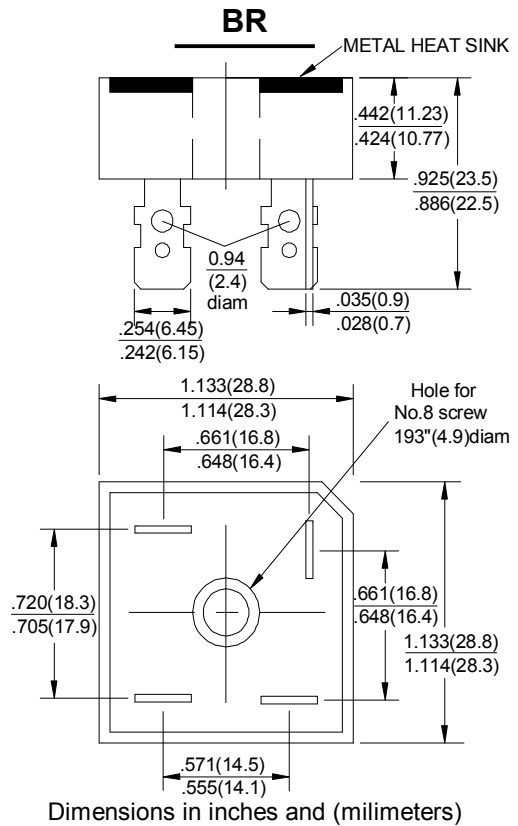
"-G" : RoHS Device

REVERSE VOLTAGE - 50 to 1000V

FORWARD CURRENT - 10/15/25/35/50 A

### FEATURES

- Surge overload -240~500amperes peak
- Low forward voltage drop
- Mounting position: Any
- Electrically isolated base -2000 Volts
- Solderable 0.25" FASTON terminals
- Materials used carries U/L recognition



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load 60HZ.

For capacitive load current by 20%

| CHARACTERISTICS                                                                      | SYMBOL | BR          |     | BR    |     | BR    |     | BR    |     | BR    |     | BR   |    | UNIT |      |   |
|--------------------------------------------------------------------------------------|--------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|------|----|------|------|---|
|                                                                                      |        | 10005       |     | 1001  |     | 1002  |     | 1004  |     | 1006  |     | 1008 |    |      | 1010 |   |
|                                                                                      |        | 15005       |     | 1501  |     | 1502  |     | 1504  |     | 1506  |     | 1508 |    |      | 1510 |   |
|                                                                                      |        | 25005       |     | 2501  |     | 2502  |     | 2504  |     | 2506  |     | 2508 |    |      | 2510 |   |
|                                                                                      |        | 35005       |     | 3501  |     | 3502  |     | 3504  |     | 3506  |     | 3508 |    |      | 3510 |   |
|                                                                                      |        | 50005       |     | 5001  |     | 5002  |     | 5004  |     | 5006  |     | 5008 |    |      | 5010 |   |
| Maximum Recurrent Peak Reverse Voltage                                               | VRRM   | 50          |     | 100   |     | 200   |     | 400   |     | 600   |     | 800  |    | 1000 |      | V |
| Maximum RMS Bridge Input Voltage                                                     | VRMS   | 35          |     | 70    |     | 140   |     | 280   |     | 420   |     | 560  |    | 700  |      | V |
| Maximum Average Forward Rectified Output Current @Tc=55°C                            | I(AV)  | BR 10       | 10  | BR 15 | 15  | BR 25 | 25  | BR 35 | 35  | BR 50 | 50  | A    |    |      |      |   |
| Peak Forward Surance Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load | IFSM   |             | 240 |       | 300 |       | 400 |       | 400 |       | 500 | A    |    |      |      |   |
|                                                                                      |        |             |     |       |     |       |     |       |     |       |     |      |    |      |      |   |
| Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0A Peak             | VF     | 1.1         |     |       |     |       |     |       |     |       |     |      | V  |      |      |   |
| Maximum Reverse Current at Rated DC Blocking Voltage Per Element @TA=25°C            | IR     | 10.0        |     |       |     |       |     |       |     |       |     |      | µA |      |      |   |
| Operating Temperature Rang                                                           | TJ     | -55 to +125 |     |       |     |       |     |       |     |       |     |      | °C |      |      |   |
| Storage Temperature Rang                                                             | TSTG   | -55 to +125 |     |       |     |       |     |       |     |       |     |      | °C |      |      |   |

## RATINGS AND CHARACTERISTIC CURVES BR10/15/25/35/50A -G SERIES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

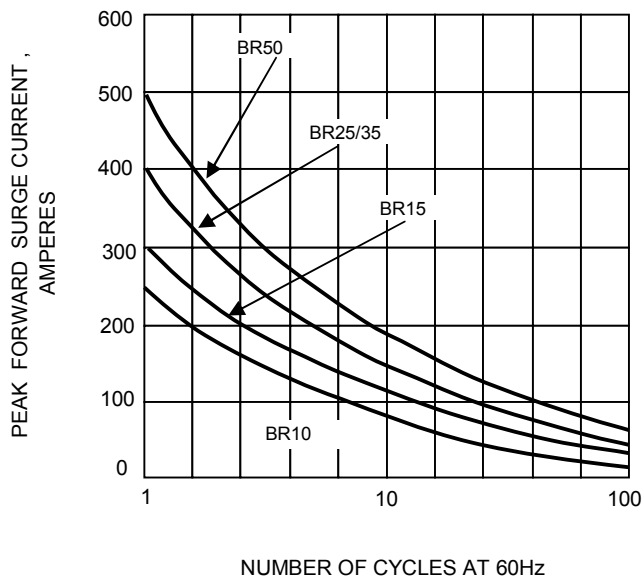


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

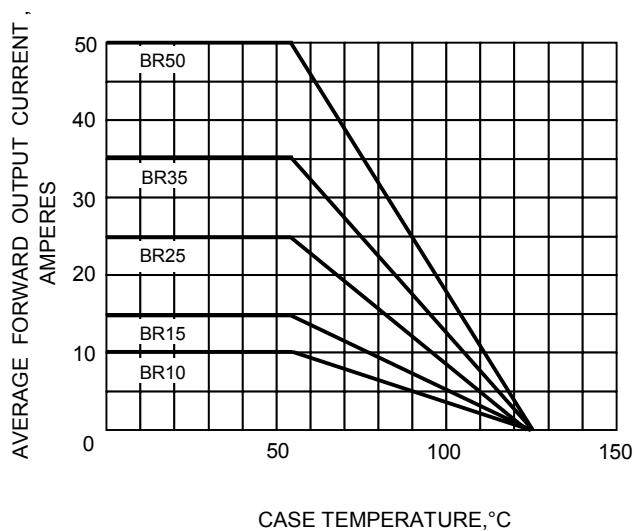


FIG.3-TYPICAL FORWARD CHARACTERISTICS

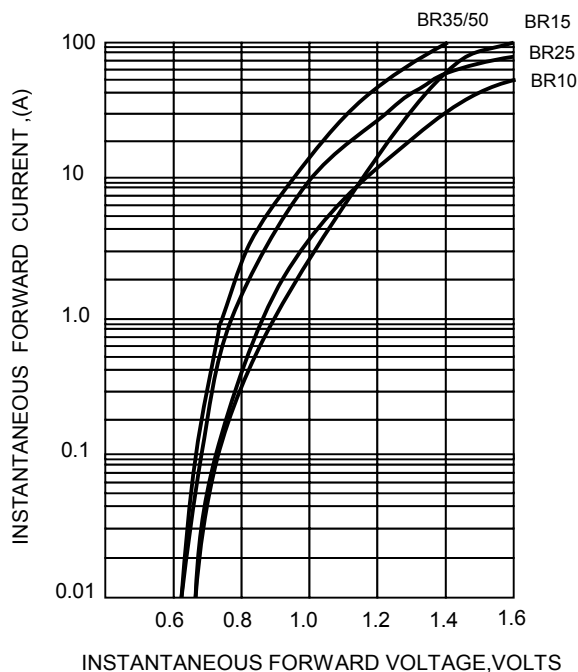


FIG.4-TYPICAL REVERSE CHARACTERISTICS

