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捷多邦, 专业PCB打样工厂, 24小时加急



GOOD-ARK

## BR605 THRU BR610

**SINGLE-PHASE SILICON BRIDGE**

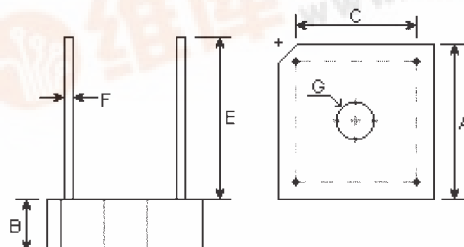
**Reverse Voltage - 50 to 1000 Volts**

**Forward Current - 6.0 Amperes**

### Features

- Surge overload rating - 125 amperes peak
- Low forward voltage drop
- Small size; simple installation
- Silver plated copper leads
- Mounting position: Any

### BR6



| DIMENSIONS |                      |       |       |       |      |
|------------|----------------------|-------|-------|-------|------|
| DIM        | inches               |       | mm    |       | Note |
|            | Min.                 | Max.  | Min.  | Max.  |      |
| A          | 0.580                | 0.620 | 14.69 | 15.71 |      |
| B          | 0.230                | 0.270 | 5.84  | 6.86  |      |
| C          | 0.405                | 0.445 | 10.29 | 11.31 |      |
| E          | 0.750                | -     | 19.1  | -     |      |
| F          | 0.038                | 0.042 | 0.97  | 1.07  | ⌀    |
| G          | HOLE FOR NO. 6 SCREW |       |       |       |      |

### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

|                                                                                                                       | Symbols    | BR605       | BR61 | BR62 | BR64 | BR66 | BR68 | BR610 | Units                        |
|-----------------------------------------------------------------------------------------------------------------------|------------|-------------|------|------|------|------|------|-------|------------------------------|
| Maximum repetitive peak reverse voltage                                                                               | $V_{RRM}$  | 50          | 100  | 200  | 400  | 600  | 800  | 1000  | Volts                        |
| Maximum RMS bridge input voltage                                                                                      | $V_{RMS}$  | 35          | 70   | 140  | 280  | 420  | 560  | 700   | Volts                        |
| Maximum average forward rectified output current at $T_A=100^\circ\text{C}$ *<br>$T_A=50^\circ\text{C}$ **            | $I_{(AV)}$ | 6.0<br>6.0  |      |      |      |      |      |       | Amps                         |
| Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load                                    | $I_{FSM}$  | 125.0       |      |      |      |      |      |       | Amps                         |
| Maximum forward Voltage drop per element at 3.0A peak                                                                 | $V_F$      | 1.0         |      |      |      |      |      |       | Volt                         |
| Maximum DC reverse current at rated DC blocking voltage per element $T_A=25^\circ\text{C}$<br>$T_A=100^\circ\text{C}$ | $I_R$      | 10.0<br>1.0 |      |      |      |      |      |       | $\mu\text{A}$<br>$\text{mA}$ |
| Operating temperature range                                                                                           | $T_J$      | -55 to +125 |      |      |      |      |      |       | $^\circ\text{C}$             |
| Storage temperature range                                                                                             | $T_{STG}$  | -55 to +150 |      |      |      |      |      |       | $^\circ\text{C}$             |

#### Notes:

\* Unit mounted on metal chassis

\*\* Unit mounted on P.C. board



## RATINGS AND CHARACTERISTIC CURVES

Fig. 1 — DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

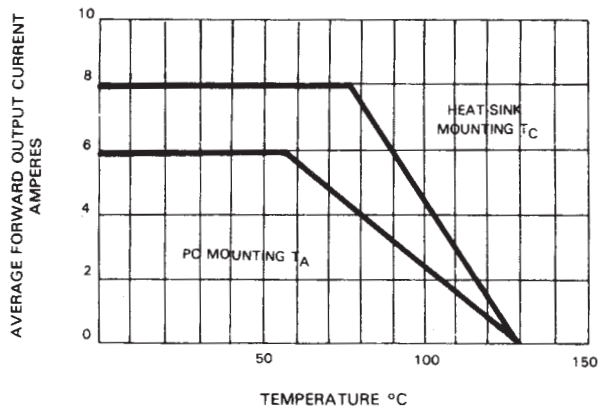


Fig. 2 — TYPICAL REVERSE  
CHARACTERISTICS

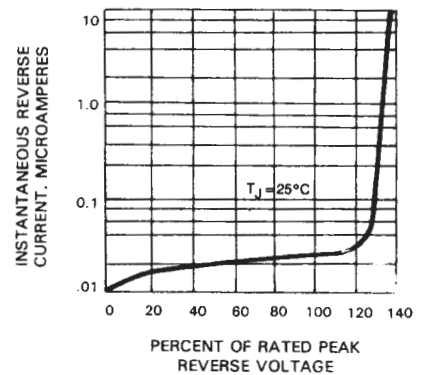


Fig. 3 — MAXIMUM FORWARD SURGE CURRENT

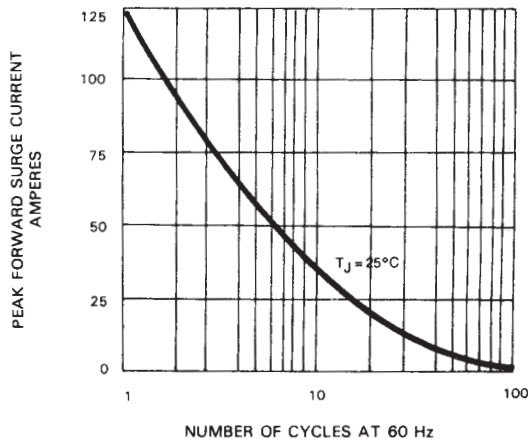


Fig. 4 — TYPICAL INSTANTANEOUS  
FORWARD CHARACTERISTICS

