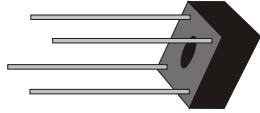
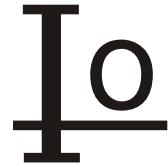


# BR 610

SINGLE PHASE 6.0 AMP BRIDGE RECTIFIERS



## FEATURES

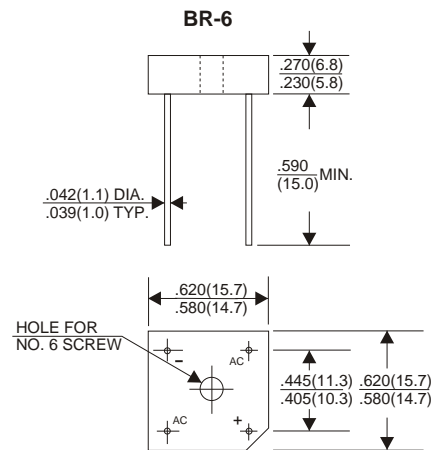
- \* Low forward voltage
- \* Low leakage current
- \* Mounting: Hole thru for #6 screw
- \* Mounting position: Any
- \* Lead Free Finish/RoHS Compliant
- \* And the other substances controlled as follows:  
 Pb<100PPM(except for pyroprocess soldering);  
 Ge<5PPM;  
 Hg<5PPM;  
 Cr<sup>6+</sup><5PPM;  
 PBBS/PBDES<5 PPM
- \* Dedicated of BHC: BR610+Day marking

## VOLTAGE RANGE

1150 Volts

## CURRENT

6.0 Ampere



## 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   | BR 610     | UNITS |
|---|------------|-------|
| Maximum Recurrent Peak Reverse Voltage  | 1150       | V     |
| Maximum RMS Voltage   | 800        | V     |
| Maximum DC Blocking Voltage   | 1150       | V     |
| Maximum Average Forward Rectified Current<br>.375"(9.5mm) Lead Length at Tc=75°C                      | 6.0        | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 125        | A     |
| Maximum Reverse Surge Current VR=1800V  | 200        | uA    |
| Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.  | 1.0        | V     |
| Maximum DC Reverse Current Ta=25°C  | 10         | uA    |
| at Rated DC Blocking Voltage Ta=100°C   | 200        | uA    |
| Maximum Reverse Voltage ( $\Delta$ VR) at different test current<br>I1=10uA, I2=100uA                 | 50         | V     |
| Operating Temperature Range, Tj   | -65 — +150 | °C    |
| Storage Temperature Range, TSTG   | -65 — +150 | °C    |

## RATING AND CHARACTERISTIC CURVES BR 610

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

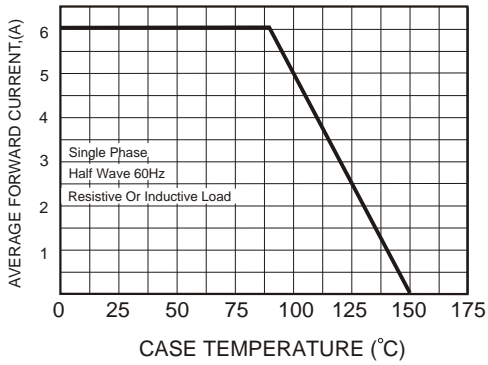


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

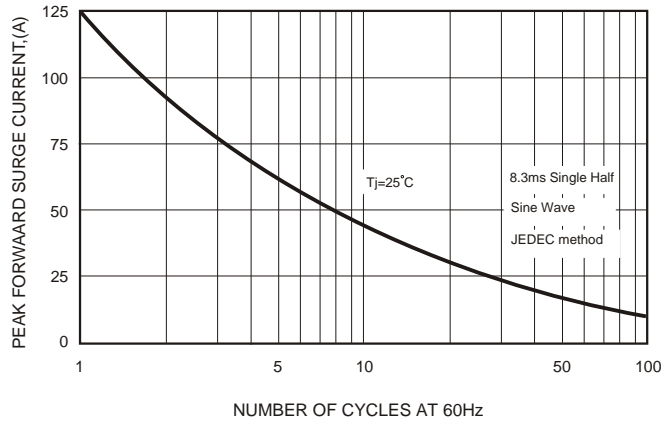


FIG.3-TYPICAL FORWARD CHARACTERISTICS

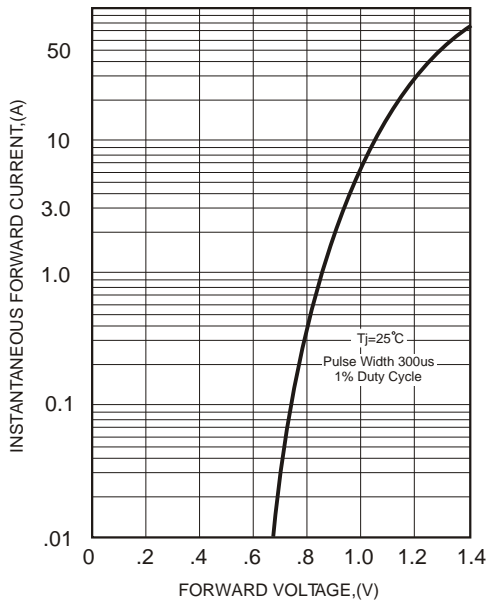


FIG.4-TYPICAL REVERSE CHARACTERISTICS

