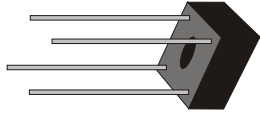


# BR605 THRU BR610

# FMS

## SINGLE PHASE 6.0 AMP BRIDGE RECTIFIERS



### FEATURES

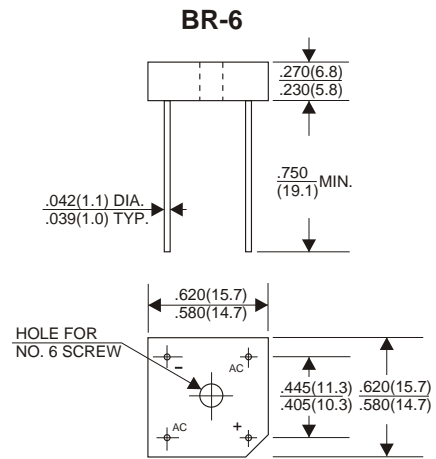
- \* Low forward voltage
- \* Low leakage current
- \* Mounting: Hole thru for #6 screw
- \* Mounting position: Any

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

6.0 Amperes



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  | BR605      | BR61 | BR62 | BR64 | BR66 | BR68 | BR610 | 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  |            |      |      |      |      |      |       |       |
| .375" (9.5mm) Lead Length at Tc=75°C   | 6.0        |      |      |      |      |      |       | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 125        |      |      |      |      |      |       | A     |
| Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.                                       | 1.0        |      |      |      |      |      |       | V     |
| Maximum DC Reverse Current Ta=25°C   | 10         |      |      |      |      |      |       | mA    |
| at Rated DC Blocking Voltage Ta=100°C  | 200        |      |      |      |      |      |       | mA    |
| Operating Temperature Range, Tj  | -65 — +125 |      |      |      |      |      |       | °C    |
| Storage Temperature Range, Tstg  | -65 — +150 |      |      |      |      |      |       | °C    |

## RATING AND CHARACTERISTIC CURVES (BR605 THRU BR610)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

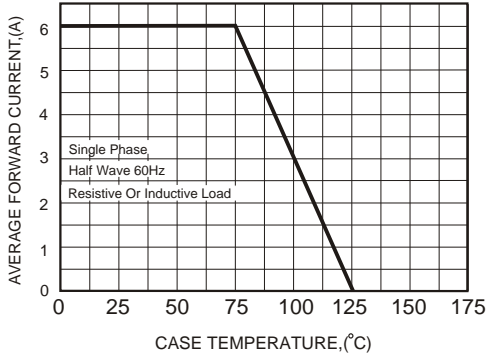


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

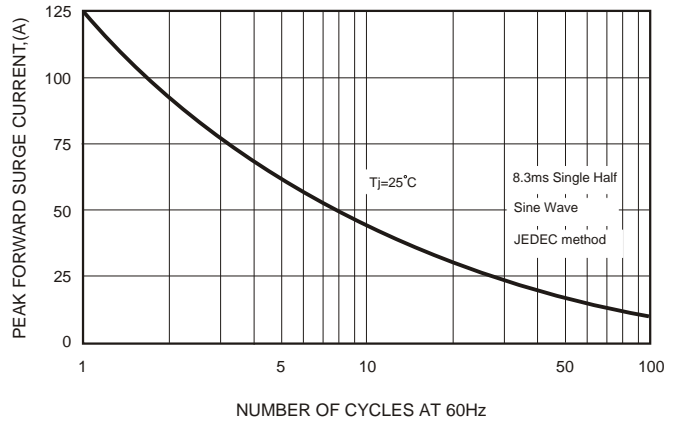


FIG.3-TYPICAL FORWARD CHARACTERISTICS

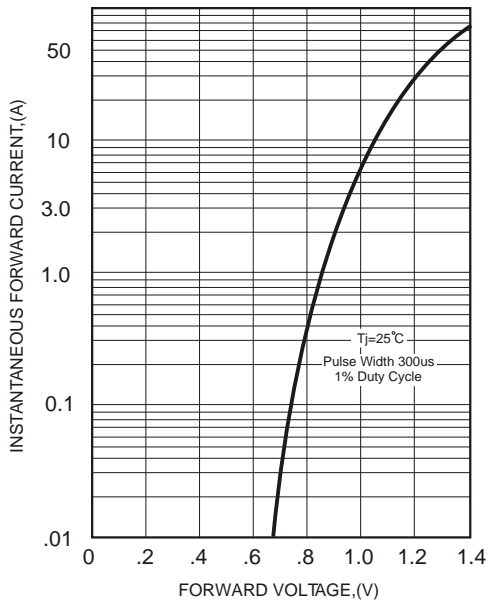


FIG.4-TYPICAL REVERSE CHARACTERISTICS

