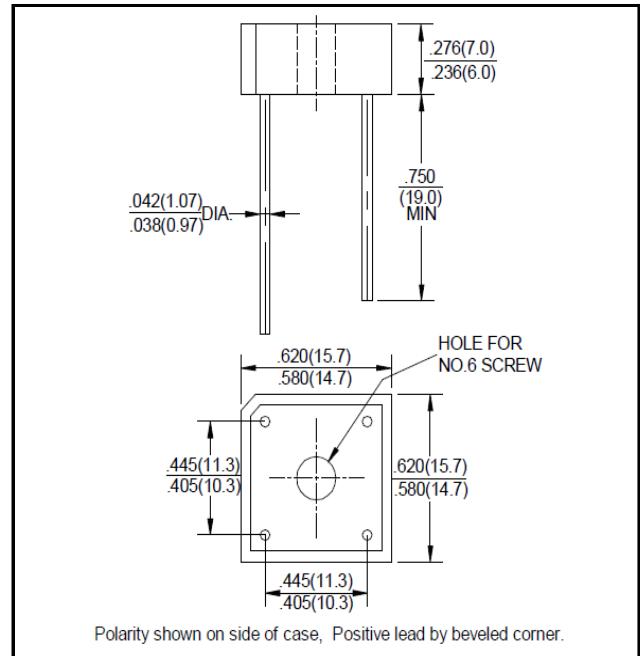


## 6.0A Single-Phase GLass Passivated Bridge Rectifiers

Rectifier Reverse Voltage 50V to 1000V

**BR**



### Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 150 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10

### Mechanical Data

Case:Molded plastic

Terminals:Platde leads solderable per MIL-STD-750,  
Method 2026

Polarity:Polarity symbols molded or Marked on body

Mounting Position:Any

Weight:0.138ounce,3.9 grams(approx)

### Maximum Ratings & Thermal Characteristics

Dimensions in inches and (milimeters)

Rating at 25°C ambient temperature unless otherwise specified, Resistive or inductive load, 60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	BR6005	BR601	BR602	BR604	BR606	BR608	BR610	unit
Maximum repetitive 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 DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=40°C	IF(AV)				6.0				A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM				150				A
Rating for fusing( $t<8.3\text{ms}$ )	$I^2t$				93				$\text{A}^2\text{sec}$
Thermal Resistance Between junction and ambient	ReJ-A				25				°C/W
Operating junction and stroage temperature range	TJ, TSTG				-55to+150				°C

### Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or inductive load, 60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	BR6005	BR601	BR602	BR604	BR606	BR608	BR610	unit
Maximum instantaneous forward voltage drop per leg at 3.0A	VF				1.1				V
Maximum DC reverse current at ratde TA=25°C DC blocking voltage per element TA=125°C	IR				5 500				UA

## Rating and Characteristic Curves (TA=25°C Unless otherwise noted)

