

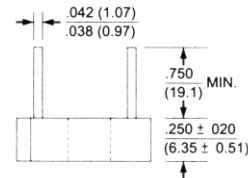
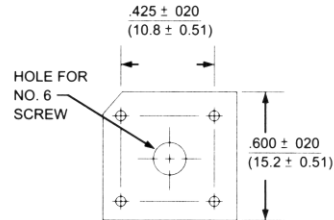


# KBPC6 / BR6 Series

Glass Passivated Single-Phase Bridge Rectifiers  
Voltage Range 50 to 1000 Volts Forward Current 6.0 Amperes

## Features

- ◆ Surge overload rating - 125 Amperes peak
- ◆ Low forward voltage drop
- ◆ Small size, simple installation
- ◆ Sliver plated copper leads
- ◆ Mounting Position: Any



Polarity shown on side of case;  
positive lead by beveled corner.

Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Parameter	Symbols	BR605	BR61	BR62	BR64	BR66	BR68	BR610	Units
		KBPC605	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610	
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current at $T_C=100^\circ\text{C}$ (Note 1) $T_A=50^\circ\text{C}$ (Note 2)	$I_{F(AV)}$	6.0 3.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	125.0							Amps
Max. instantaneous forward voltage drop per element at 1.5A	$V_F$	1.0							Volt
Maximum DC reverse current at rated DC blocking voltage per element $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	$I_R$	10.0 1.0							$\mu\text{A}$ mA
Operating temperature range	$T_J$	-55 to +125							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

- Notes:**
1. Unit mounted on metal chassis
  2. Unit mounted on P.C. board

# RATINGS AND CHARACTERISTIC CURVES

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

