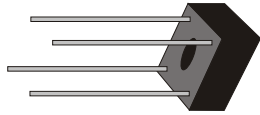
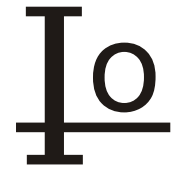


# KBPC6005 THRU KBPC610

SINGLE PHASE 6.0 AMP BRIDGE RECTIFIERS



## FEATURES

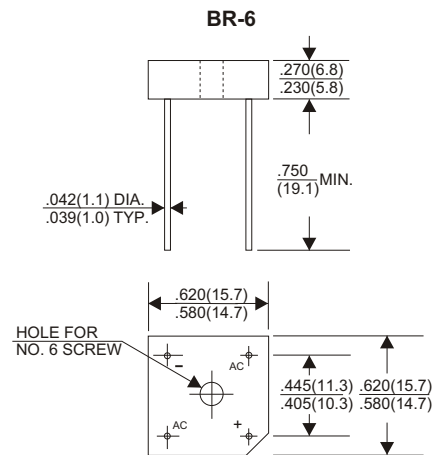
- \* Low forward voltage
- \* Low leakage current
- \* Mounting: Hole thru for #6 screw
- \* Mounting position: Any
- \* Lead Free Finish/RoHS Compliant

## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

6.0 Ampere



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                                                                                        | KBPC6005 | KBPC601 | KBPC602 | KBPC604 | KBPC606 | KBPC608 | KBPC610 | 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) |          |         |         |         |         |         |         | 150        | A  |
| Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.                                       |          |         |         |         |         |         |         | 1.0        | V  |
| Maximum DC Reverse Current                                                                         |          |         |         |         |         |         |         | 10         | uA |
| at Rated DC Blocking Voltage                                                                       |          |         |         |         |         |         |         | 200        | uA |
| Operating Temperature Range, Tj                                                                    |          |         |         |         |         |         |         | -65 — +125 | °C |
| Storage Temperature Range, TSTG                                                                    |          |         |         |         |         |         |         | -65 — +150 | °C |

## RATING AND CHARACTERISTIC CURVES (KBPC6005 THRU KBPC610)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

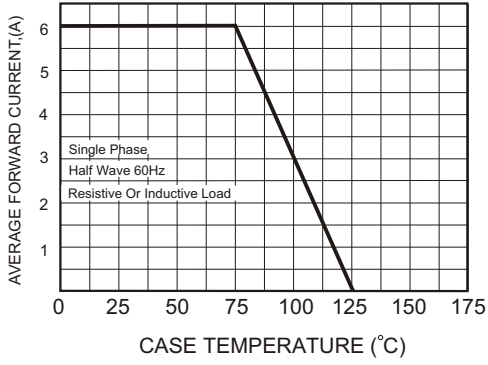


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

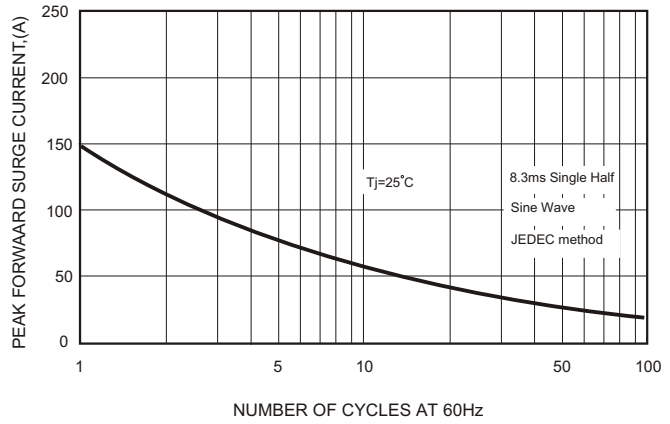


FIG.3-TYPICAL FORWARD CHARACTERISTICS

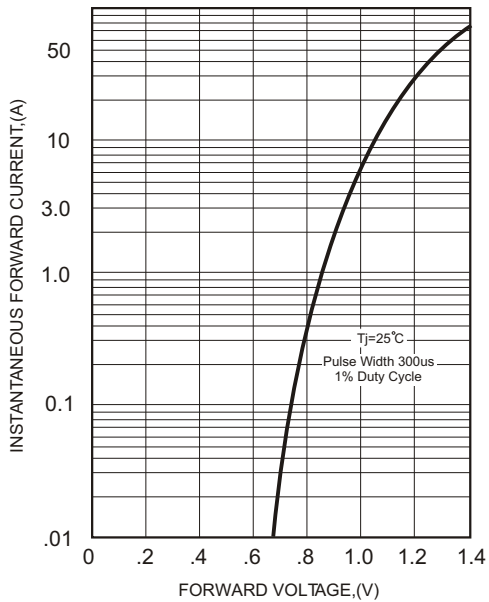


FIG.4-TYPICAL REVERSE CHARACTERISTICS

