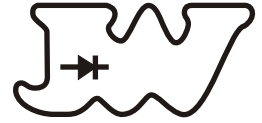
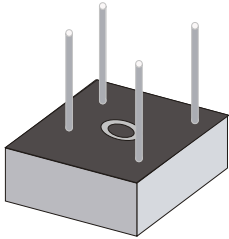


# KBPC15005W THRU KBPC1510W



SINGLE PHASE 15 AMP BRIDGE RECTIFIERS



## FEATURES

- \* Superior thermal design
- \* 300 amperes surge capability
- \* Mounting: Hole thru for #8 screw

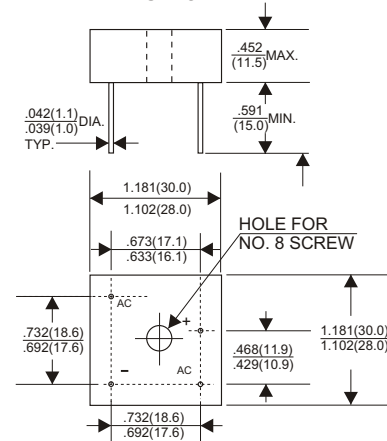
## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

15.0 Amperes

### KBPC-15W



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   | KBPC15005W | KBPC1501W | KBPC1502W | KBPC1504W | KBPC1506W | KBPC1508W | KBPC1510W | 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<br>.375"(9.5mm) Lead Length at Tc=55°C                      |            |           |           |           |           |           |           | 15         | A  |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) |            |           |           |           |           |           |           | 300        | A  |
| Maximum Forward Voltage Drop per Bridge Element at 7.5A D.C.  |            |           |           |           |           |           |           | 1.1        | V  |
| Maximum DC Reverse Current<br>Ta=25°C   |            |           |           |           |           |           |           | 10         | μA |
| at Rated DC Blocking Voltage<br>Ta=100°C  |            |           |           |           |           |           |           | 500        | μA |
| Operating Temperature Range, Tj   |            |           |           |           |           |           |           | -65 — +125 | °C |
| Storage Temperature Range, Tstg   |            |           |           |           |           |           |           | -65 — +150 | °C |

## RATING AND CHARACTERISTIC CURVES (KBPC15005W THRU KBPC1510W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

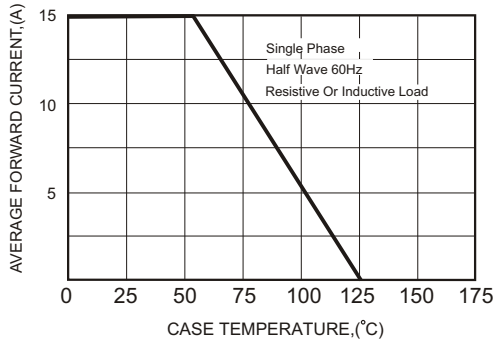


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

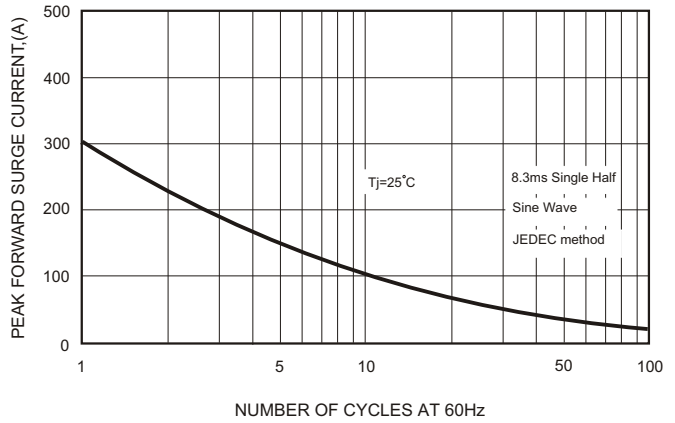


FIG.3-TYPICAL FORWARD CHARACTERISTICS

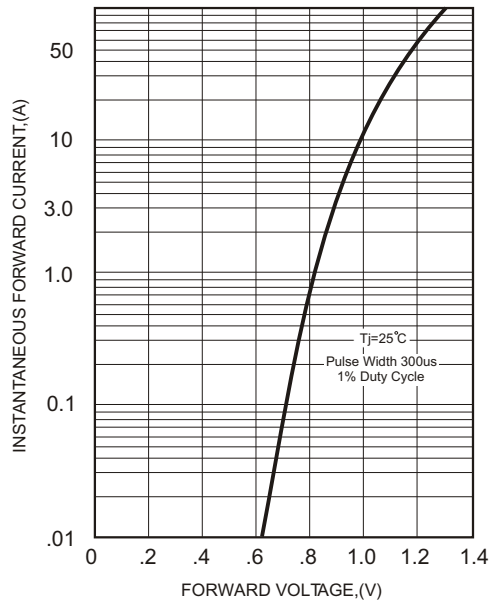


FIG.4-TYPICAL REVERSE CHARACTERISTICS

