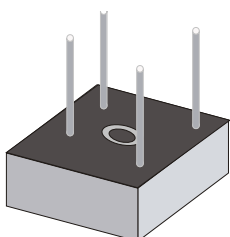




# KBPC50005W THRU KBPC5010W

## SINGLE PHASE 50.0 AMP BRIDGE RECTIFIERS



### FEATURES

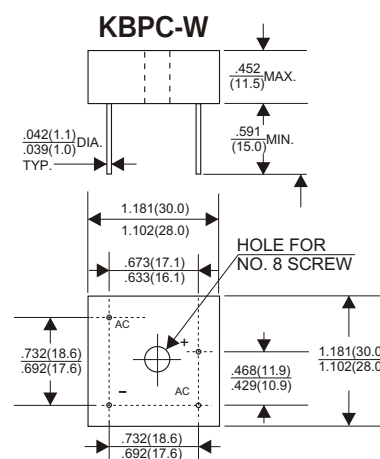
- \* Superior thermal design
- \* 400 amperes surge capability
- \* Mounting: Hole thru for #8 screw

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

50.0 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                                                                                        | KBPC50005W | KBPC5001W | KBPC5002W | KBPC5004W | KBPC5006W | KBPC5008W | KBPC5010W | 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                                                          | 50.0       |           |           |           |           |           |           | A     |
| .375"(9.5mm) Lead Length at Tc=50°C                                                                | 50.0       |           |           |           |           |           |           | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 450        |           |           |           |           |           |           | A     |
| Maximum Forward Voltage Drop per Bridge Element at 25A D.C.                                        | 1.2        |           |           |           |           |           |           | V     |
| Maximum DC Reverse Current Ta=25°C                                                                 | 10         |           |           |           |           |           |           | µA    |
| at Rated DC Blocking Voltage Ta=100°C                                                              | 100        |           |           |           |           |           |           | µA    |
| Operating Temperature Range, Tj                                                                    | -65 — +150 |           |           |           |           |           |           | °C    |
| Storage Temperature Range, Tstg                                                                    | -65 — +150 |           |           |           |           |           |           | °C    |

RATING AND CHARACTERISTIC CURVES (KBPC50005W THRU KBPC5010W)

FIG.1-TYPICAL FORWARD CURRENT  
DERATING CURVE

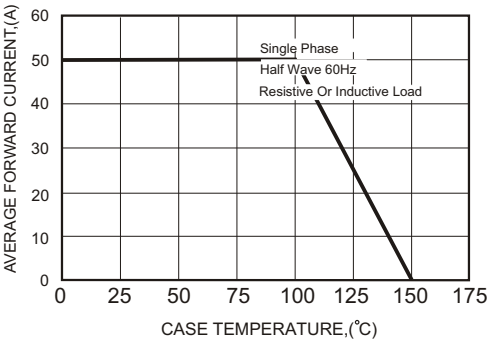


FIG.2-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

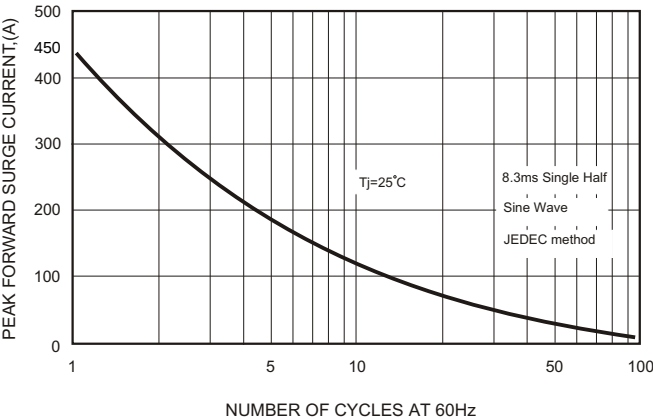


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

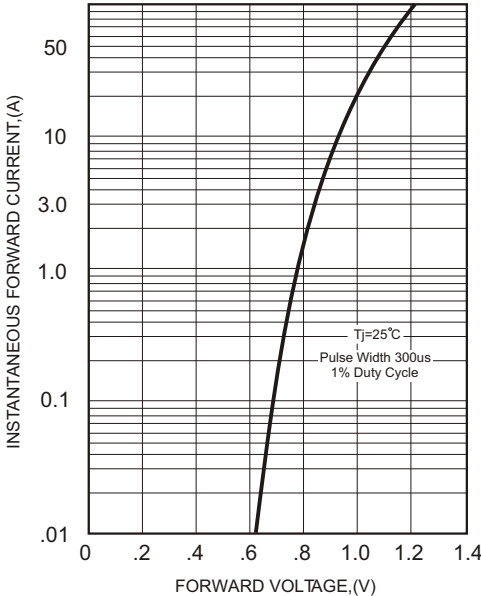


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

