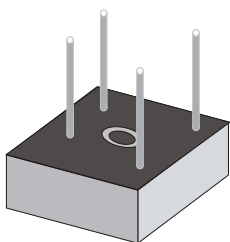




# KBPC25005W THRU KBPC2510W

SINGLE PHASE 25.0 AMP BRIDGE RECTIFIERS



## FEATURES

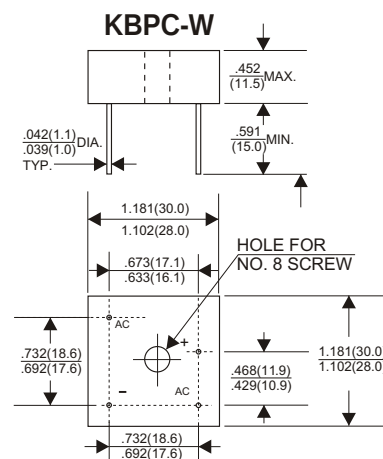
- \* Superior thermal design
- \* 400 amperes surge capability
- \* Mounting: Hole thru for #8 screw

## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

25.0 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                                                                                        | KBPC25005W | KBPC2501W | KBPC2502W | KBPC2504W | KBPC2506W | KBPC2508W | KBPC2510W | 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                                                          | 25.0       |           |           |           |           |           |           | A     |
| .375"(9.5mm) Lead Length at Tc=50°C                                                                | 25.0       |           |           |           |           |           |           | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 300        |           |           |           |           |           |           | A     |
| Maximum Forward Voltage Drop per Bridge Element at 12.5A 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 (KBPC25005W THRU KBPC2510W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

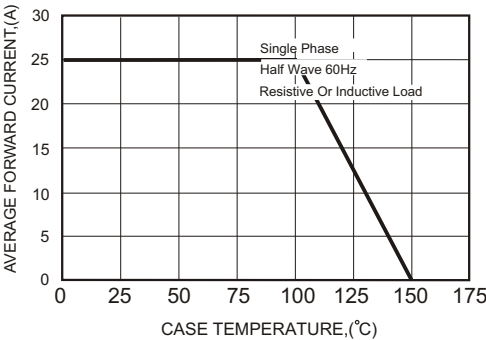


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

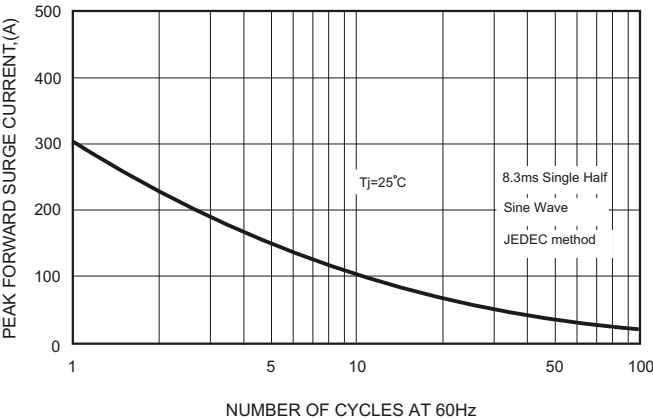


FIG.3-TYPICAL FORWARD CHARACTERISTICS

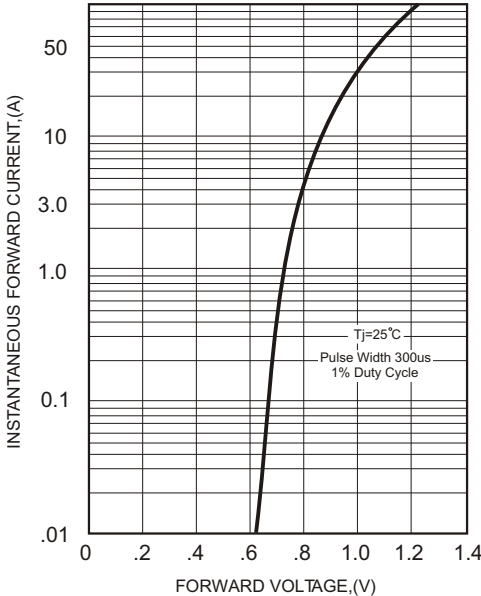


FIG.4-TYPICAL REVERSE CHARACTERISTICS

