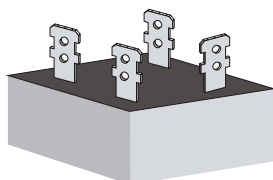


# GBPC35005 THRU GBPC3510

SINGLE PHASE 35 AMP GLASS PASSIVATED BRIDGE RECTIFIERS



## FEATURES

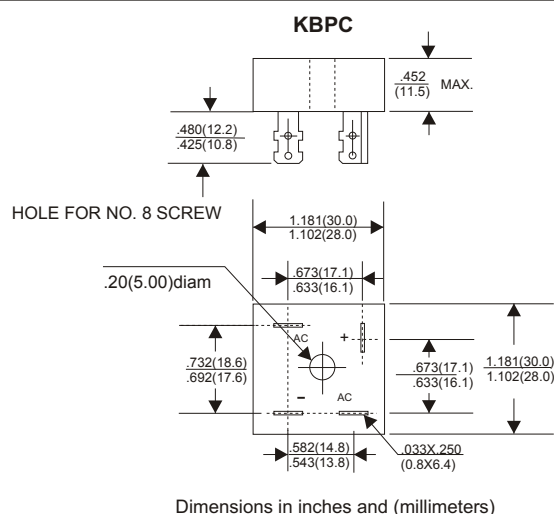
- \* Superior thermal design
- \* 400 amperes surge capability
- \* Mounting: Hole thru for NO.10 screw
- \* 1/4" universal faston terminal
- \* Lead Free Finish/RoHS Compliant

## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

35.0 Ampere



## 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                                                                                           | GBPC35005  | GBPC3501 | GBPC3502 | GBPC3504 | GBPC3506 | GBPC3508 | GBPC3510 | 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                      | 35         |          |          |          |          |          |          | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 400        |          |          |          |          |          |          | A     |
| Maximum Forward Voltage Drop per Bridge Element at 17.5 A D.C.                                        | 1.1        |          |          |          |          |          |          | V     |
| Maximum DC Reverse Current<br>Ta=25°C                                                                 | 10         |          |          |          |          |          |          | uA    |
| at Rated DC Blocking Voltage<br>Ta=100°C                                                              | 500        |          |          |          |          |          |          | uA    |
| Operating Temperature Range, Tc                                                                       | -50 — +150 |          |          |          |          |          |          | °C    |
| Storage Temperature Range, Ta                                                                         | -55 — +150 |          |          |          |          |          |          | °C    |

RATING AND CHARACTERISTIC CURVES (GBPC35005 THRU GBPC3510)

FIG.1-TYPICAL FORWARD CURRENT  
DERATING CURVE

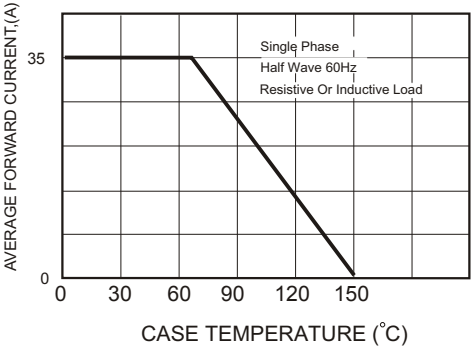


FIG.2-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

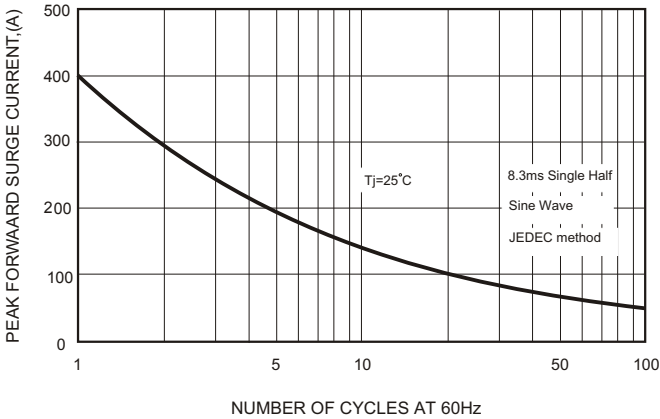


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

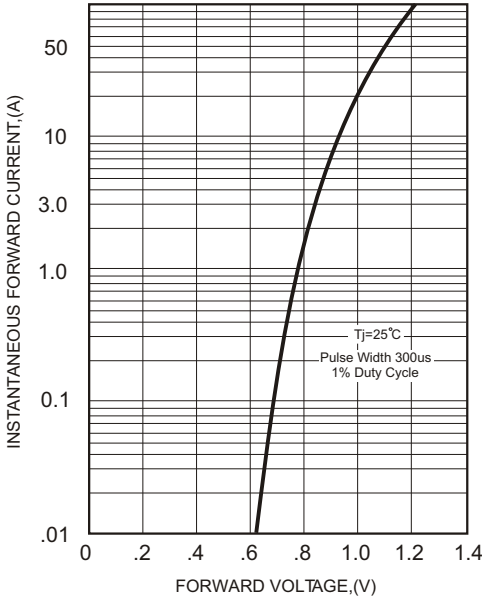


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

