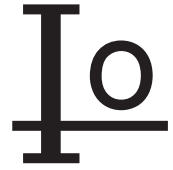
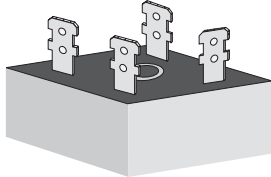


# MB2505 THRU MB2510



## SINGLE PHASE 25 AMP BRIDGE RECTIFIERS



## FEATURES

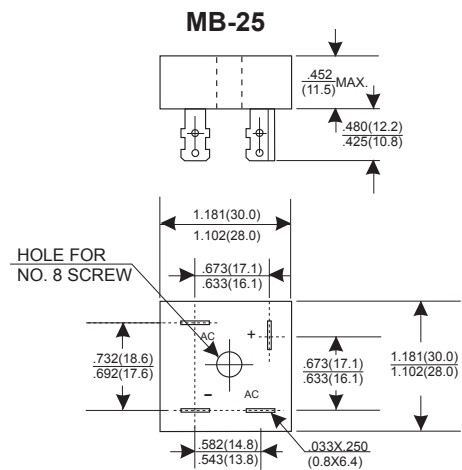
- \* Superior thermal design
- \* 300 amperes surge capability
- \* Mounting: Hole thru for #8 screw
- \* 1/4" universal faston terminal

## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

25.0 Amperes



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                                                                                           | MB2505 | MB251 | MB252 | MB254 | MB256 | MB258 | MB2510 | 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                      |        |       |       |       |       |       |        | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) |        |       |       |       |       |       |        | A     |
| Maximum Forward Voltage Drop per Bridge Element at 12.5AD.C.                                          |        |       |       |       |       |       |        | V     |
| Maximum DC Reverse Current Ta=25°C                                                                    |        |       |       |       |       |       |        | µA    |
| at Rated DC Blocking Voltage Ta=100 °C                                                                |        |       |       |       |       |       |        | µA    |
| Operating Temperature Range, TJ                                                                       |        |       |       |       |       |       |        | °C    |
| Storage Temperature Range, TSrG                                                                       |        |       |       |       |       |       |        | °C    |

## RATING AND CHARACTERISTIC CURVES (MB2505 THRU MB2510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

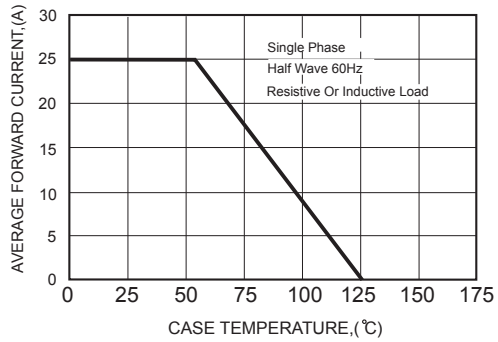


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

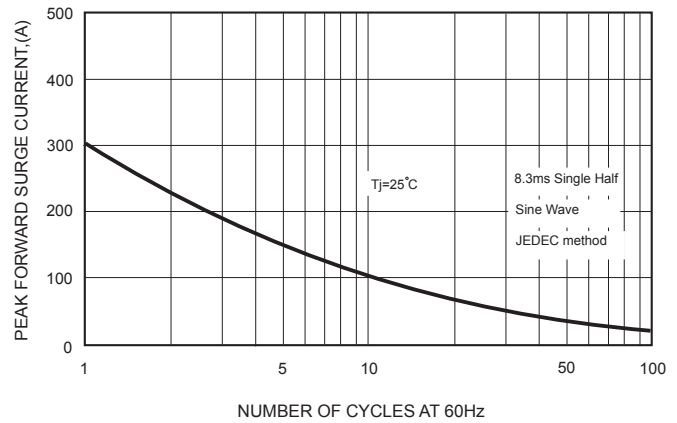


FIG.3-TYPICAL FORWARD CHARACTERISTICS

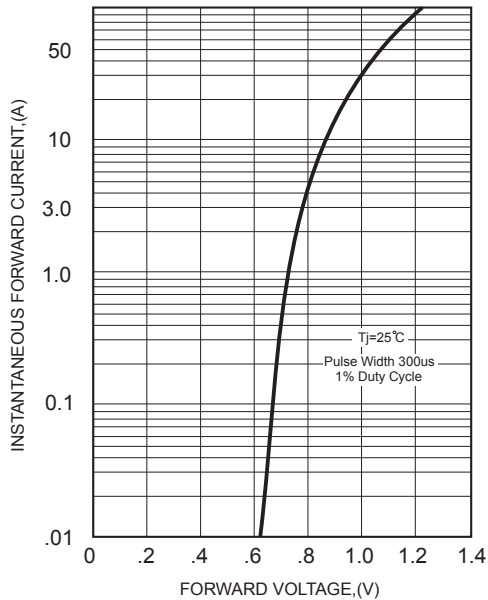


FIG.4-TYPICAL REVERSE CHARACTERISTICS

