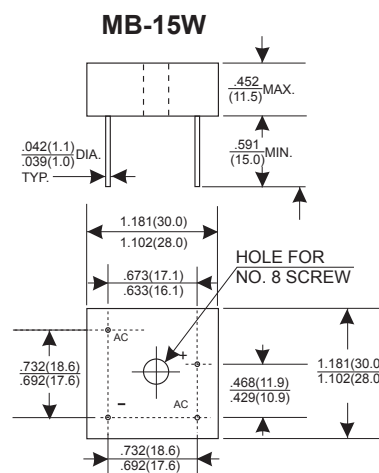


Io

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

15.0 Amperes



Dimensions in inches and (millimeters)

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                                                                                           | MB1505W    | MB151W | MB152W | MB154W | MB156W | MB158W | MB1510W | 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) | 300        |        |        |        |        |        |         | A     |
| Maximum Forward Voltage Drop per Bridge Element at 7.5AD.C.                                           | 1.1        |        |        |        |        |        |         | V     |
| Maximum DC Reverse Current Ta=25°C                                                                    | 10         |        |        |        |        |        |         | μA    |
| at Rated DC Blocking Voltage Ta=100°C                                                                 | 500        |        |        |        |        |        |         | μA    |
| Operating Temperature Range, TJ                                                                       | -65 — +125 |        |        |        |        |        |         | °C    |
| Storage Temperature Range, TSTG                                                                       | -65 — +150 |        |        |        |        |        |         | °C    |

## RATING AND CHARACTERISTIC CURVES (MB1505W THRU MB1510W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

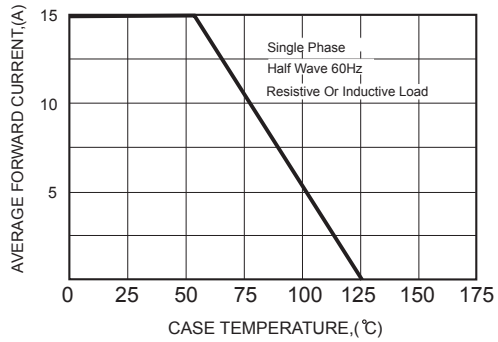


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

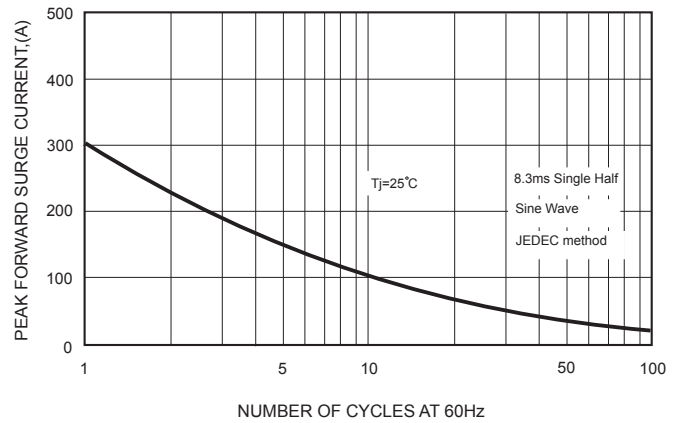


FIG.3-TYPICAL FORWARD CHARACTERISTICS

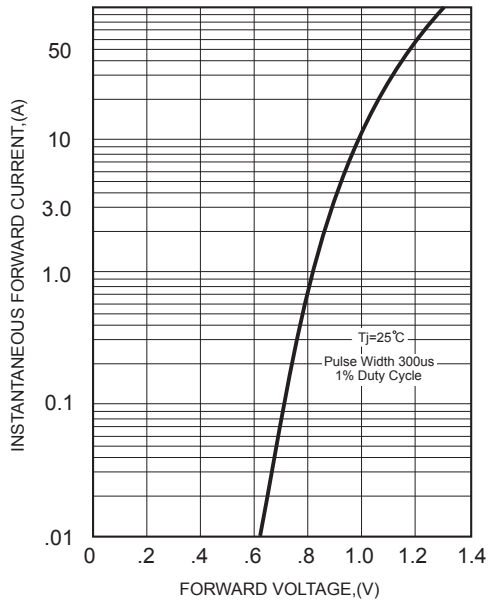


FIG.4-TYPICAL REVERSE CHARACTERISTICS

