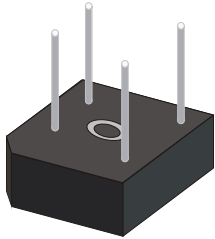


# MP2505W THRU MP2510W



SINGLE PHASE 25 AMP BRIDGE RECTIFIERS



## FEATURES

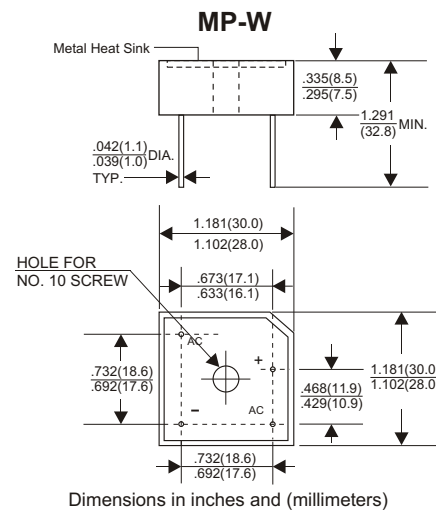
- \* Superior thermal design
- \* 300 amperes surge capability
- \* Mounting: Hole thru for #8 screw

## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

25.0 Amperes



## 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   | MP2505W | MP251W | MP252W | MP254W | MP256W | MP258W | MP2510W | 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                      |         |        |        |        |        |        |         | 25         | 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 12.5A D.C.   |         |        |        |        |        |        |         | 1.2        | V  |
| Maximum DC Reverse Current<br>Ta=25°C   |         |        |        |        |        |        |         | 10         | μA |
| at Rated DC Blocking Voltage<br>Ta=100°C  |         |        |        |        |        |        |         | 500        | μA |
| Operating Temperature Range, Tj   |         |        |        |        |        |        |         | -65 — +125 | °C |
| Storage Temperature Range, Tstg   |         |        |        |        |        |        |         | -65 — +150 | °C |

## RATING AND CHARACTERISTIC CURVES (MP2505W THRU MP2510W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

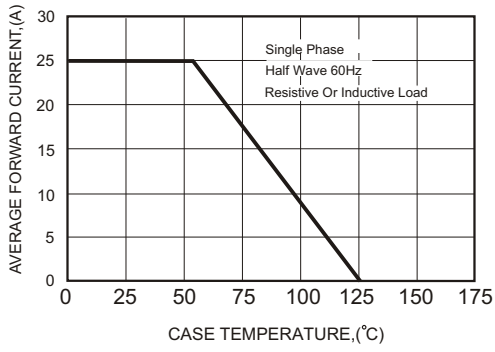


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

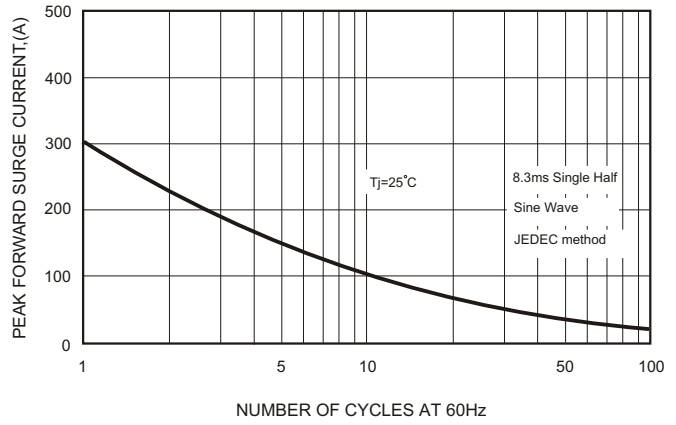


FIG.3-TYPICAL FORWARD CHARACTERISTICS

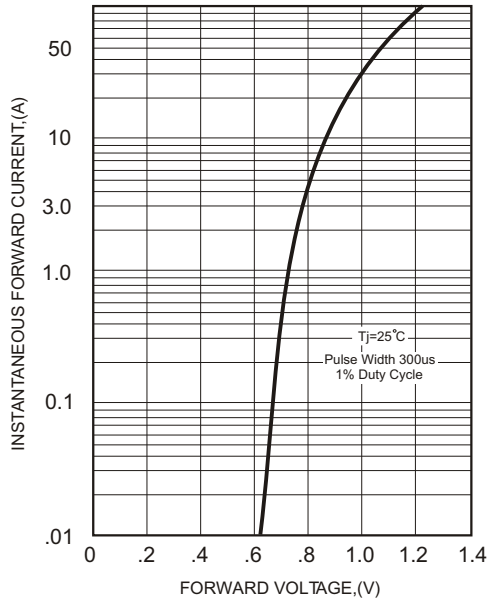


FIG.4-TYPICAL REVERSE CHARACTERISTICS

