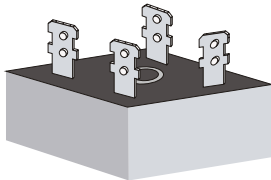


# MB3505 THRU MB3510



SINGLE PHASE 35 AMP BRIDGE RECTIFIERS



## FEATURES

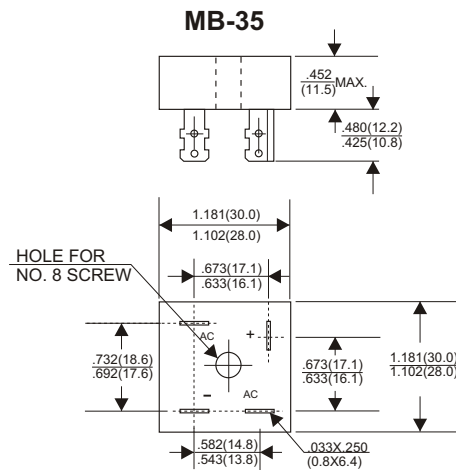
- \* Superior thermal design
- \* 400 amperes surge capability
- \* Mounting: Hole thru for #8 screw
- \* 1/4" universal faston terminal

## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

35.0 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   | MB3505 | MB351 | MB352 | MB354 | MB356 | MB358 | MB3510 | 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 17.5AD.C.  |        |       |       |       |       |       |        | 1.1        | 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 (MB3505 THRU MB3510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

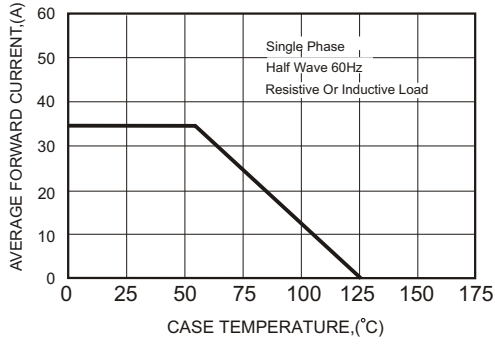


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

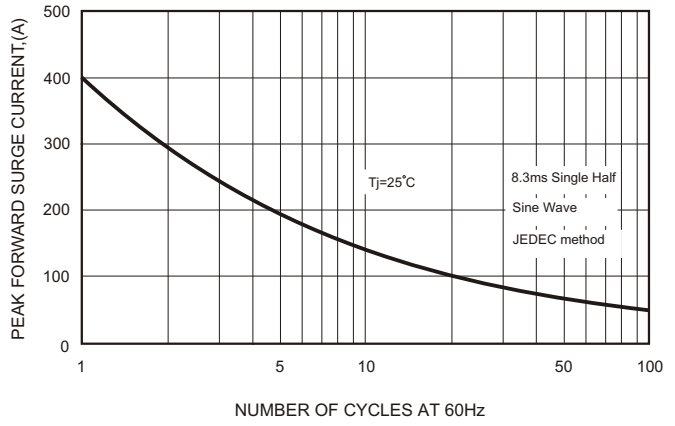


FIG.3-TYPICAL FORWARD CHARACTERISTICS

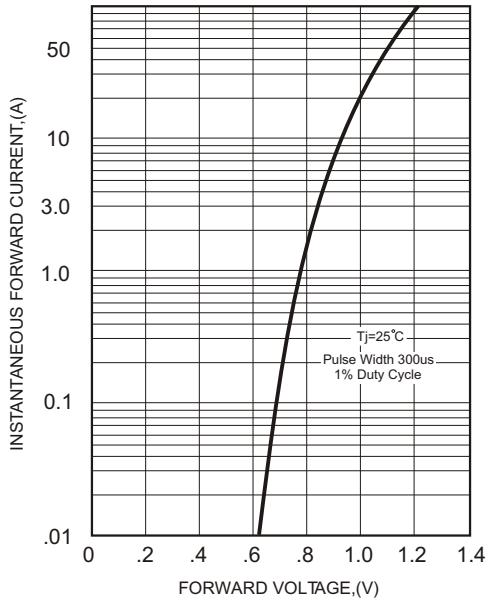


FIG.4-TYPICAL REVERSE CHARACTERISTICS

