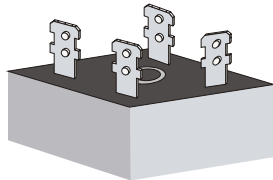


MB2505 THRU MB2510



SINGLE PHASE 25 AMP BRIDGE RECTIFIERS



FEATURES

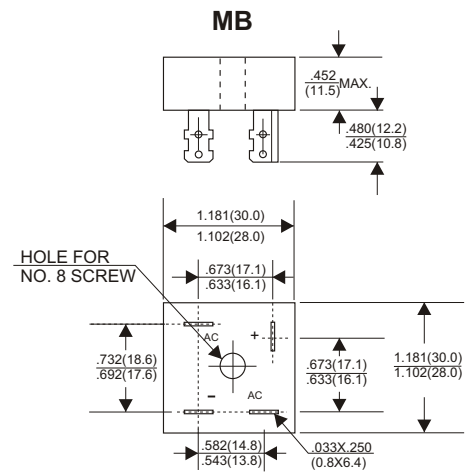
- * Superior thermal design
- * 300 amperes surge capability
- * Mounting: Hole thru for #8 screw
- * 1/4" universal faston terminal

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 | | | | | | | | | |
| .375" (9.5mm) Lead Length at Tc=55°C | | | | | | | | 25 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | | | | | | | | 300 | A |
| Maximum Forward Voltage Drop per Bridge Element at 12.5AD.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 — +150 | °C |
| Storage Temperature Range, Tstg | | | | | | | | -65 — +150 | °C |

RATING AND CHARACTERISTIC CURVES (MB2505 THRU MB2510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

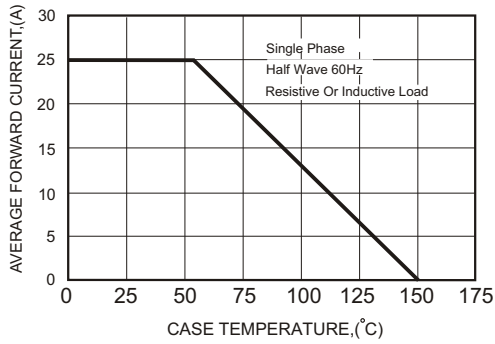


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

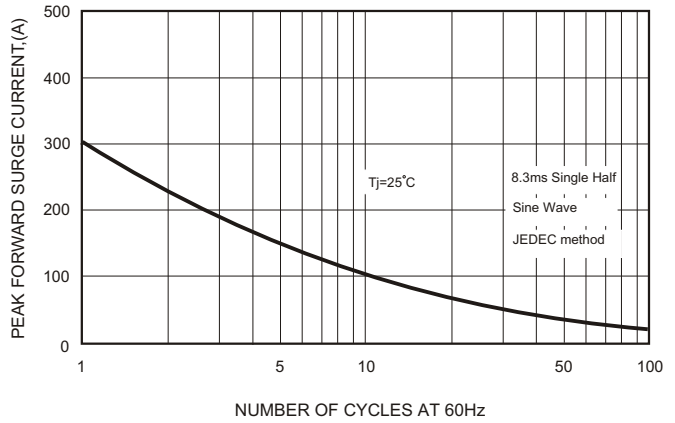


FIG.3-TYPICAL FORWARD CHARACTERISTICS

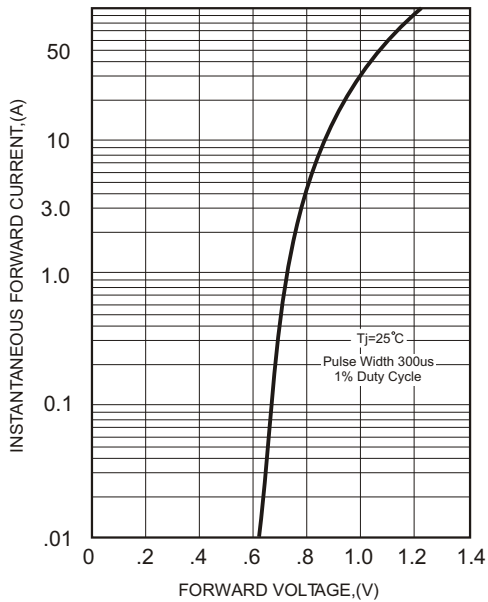


FIG.4-TYPICAL REVERSE CHARACTERISTICS

