

## FEATURES

* Superior thermal desing
* 300 amperes surge rating
* 1/4" universal faston terminal
* Hole thru for \#8 screw


## MECHANICAL DATA

* Epoxy : Device has UL flammability classification 94V-0 * UL listed the recongnized component director, file \#94233


## DISCONTINUED-

"This series is replaced by the MP25 series that meets to the same fit and function parameters.
The MP25 series is preferred for PCB assembly."

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at $25^{\circ} \mathrm{C}$ ambient temperature unless otherwise specified Single phase, half wave, 60 Hz , resistive or inductive load. For capacitive load, derate current by $20 \%$.


MB-25


MB-25W

MAXIMUM RATINGS (@ TA=25 ${ }^{\circ} \mathrm{C}$ unless otherwise noted)

| RATINGS | SYMBOL | MB2505 | MB251 | MB252 | MB254 | MB256 | MB258 | MB2510 | UNITS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Maximum Recurrent Peak Reverse Voltage | $\mathrm{V}_{\text {RRM }}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | $\mathrm{V}_{\text {RMS }}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | $V_{D C}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current at $\mathrm{T}_{\mathrm{C}}=55^{\circ} \mathrm{C}$ | 10 | 25.0 |  |  |  |  |  |  | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | $\mathrm{I}_{\text {FSM }}$ | 300 |  |  |  |  |  |  | Amps |
| Typical Thermal Resistance (Note 2) | $\mathrm{R}_{\text {өJC }}$ | 4 |  |  |  |  |  |  | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
|  | $\mathrm{R}_{\text {өJA }}$ | 16 |  |  |  |  |  |  |  |
| Operating and Storage Temperature Range | TJ, TSTG | -55 to +150 |  |  |  |  |  |  | ${ }^{\circ} \mathrm{C}$ |

ELECTRICAL CHARACTERISTICS(@TA=25 ${ }^{\circ} \mathrm{C}$ unless otherwise noted)

| CHARACTERISTICS |  | SYMBOL | MB2505 | MB251 | MB252 | MB254 | MB256 | MB258 | MB2510 | UNITS |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Maximum Instantaneous Forward Voltage at 12.5ADC |  | $V_{F}$ | 1.1 |  |  |  |  |  |  | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $@ T_{A}=25^{\circ} \mathrm{C}$ | IR | 5.0 |  |  |  |  |  |  | uAmps |
|  | $@ T_{A}=100^{\circ} \mathrm{C}$ |  | 500 |  |  |  |  |  |  |  |

[^0]2007-5
2. Typical Thermal Resistance: Heat-sink case mounted.
3. "Fully ROHS compliant", "100\% Sn plating (Pb-free)"

## RATING AND CHARACTERISTICS CURVES (MB2505 THRU MB2510)



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[^0]:    NOTES: 1. Suffix "W" for wire type.

