



B40C3700/2200 - B500C3700/2200

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|--|---|
| SILICON BRIDGE RECTIFIERS | REVERSE VOLTAGE -50 to 1000Volts FORWARD CURRENT -3.7Amperes |
| <p>FEATURES</p> <ul style="list-style-type: none"> ● Plastic material used carries Underwriter Laboratory recognition 94V-0 ● High surge current capability ● Ideal for printed circuit board ● Typical IR less than 1mA ● Built-in printed board stand offs ● High temperature soldering guaranteed: 250°C for 5 seconds | <p style="text-align: center;">Dimensions in inches and(millimeters)</p> |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

resistive or inductive load at 50Hz or 60Hz

| CHARACTERISTICS | Symbol | B40C3700/ 2200 | B80C3700/ 2200 | B125C3700/ 2200 | B250C3700/ 2200 | B380C3700/ 2200 | B500C3700/ 2200 | UNIT |
|--|------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|------------------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 100 | 200 | 300 | 600 | 900 | 1000 | V |
| Maximum RMS Voltage | VRMS | 40 | 80 | 125 | 250 | 380 | 420 | V |
| Maximum DC Blocking Voltage | VDC | 100 | 200 | 300 | 600 | 900 | 1000 | V |
| Average Rectifice Output Current @ TA=45°C | Io | 3.7 | | | | | | A |
| Non-Repeitive Peak Forward Surge Current | IFSM | 100 | | | | | | A |
| 8.3ms Single half sine-wave superimposed on rated load(JEDEC METHOD) | | | | | | | | |
| Forward Voltage(per element) @IF=3.7A | VFM | 1.0 | | | | | | V |
| Maximum Reverse Current at @TJ=25°C | IR | 10.0 | | | | | | uA |
| Rated Repetitive Peak Voltage @TJ=150°C | | | | | | | | mA |
| i ² t Rating for fusing @TJ=25°C | i ² t | 312 | | | | | | A ² S |
| (t<8.3ms) @TJ=150°C | | | | | | | | |
| Typical Thermal Resistance | RθJA | 3 | | | | | | Kw |
| Operating and Storage Temperature Range TJ,TSTG | | -40 to +125 | | | | | | °C |

RATING AND CHARACTERISTIC CURVES

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FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED

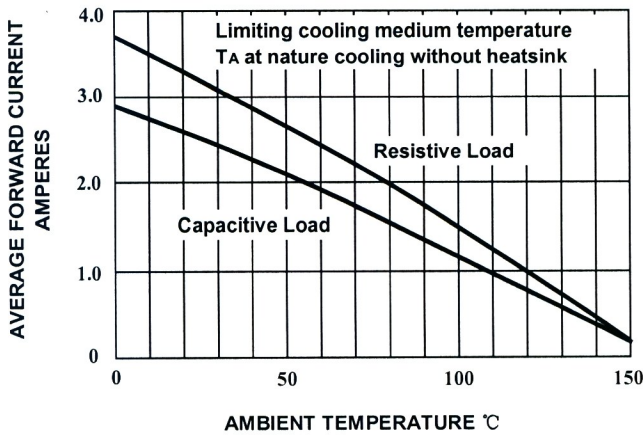


FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED

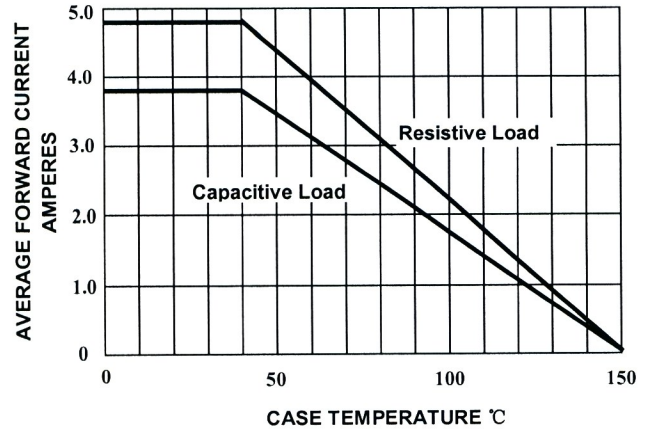


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER BRIDGE

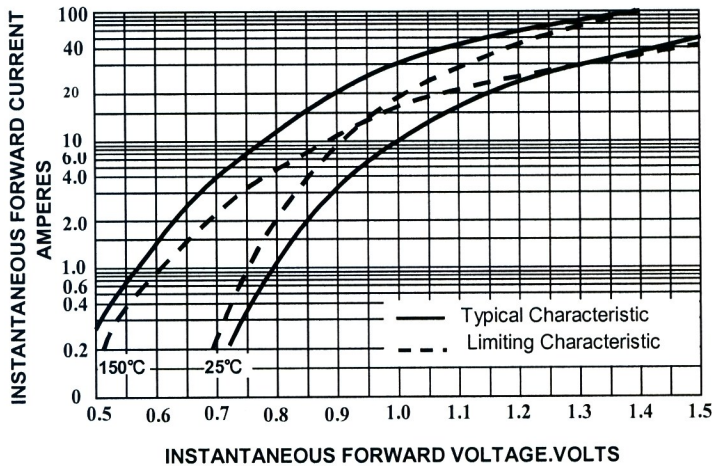


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

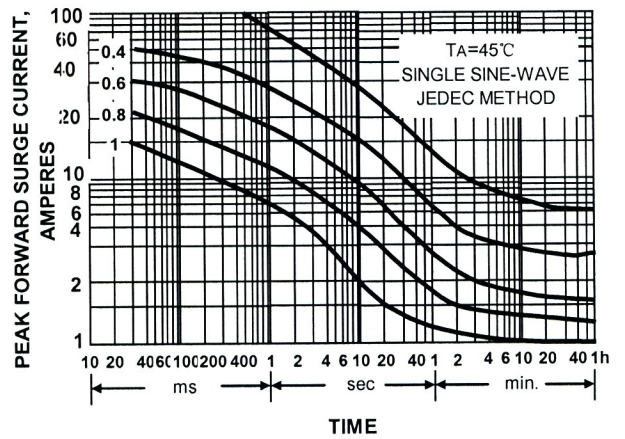


FIG.5-MAXIMUM TOTAL BRIDGE POWER DISSIPATION

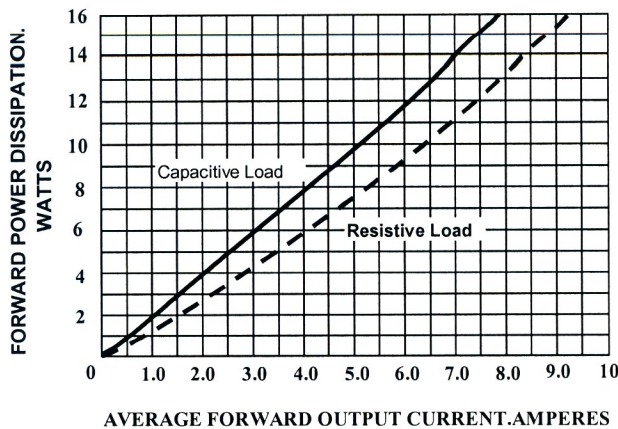


FIG.6-MEAN AVERAGE FORWARD CURRENT CASE TEMPERATURE

