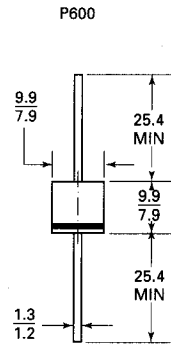


P600A...P600M
PLASTIC SILICON RECTIFIERS

FEATURES

- * Low forward voltage
- * High current capability
- * Low leakage current
- * High surge capability
- * Low cost



VOLTAGE RANCE

50 to 1000 Volts

CURRENT

6.0 Amperes

Dimensions in mm

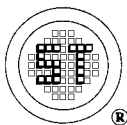
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperture unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| | P600A | P600B | P600D | P600G | P600J | P600K | P600M | 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 T _A = 60 °C | 6.0 | | | | | | | A |
| Peak Forward Surge Current 8.3 ms single half sine-wave | 350 | | | | | | | A |
| Maximum Forward Voltage at 6.0A Peak | 0.95 | | | | | | | V |
| Maximum Reverse Current, Rated DC Blocking Voltage | 10 | | | | | | | μA |
| Maximum Full Load Reverse Current, Full Cycle Average. .375", (9.5mm) Lead Legnth at T _A = 55 °C | 100 | | | | | | | μA |
| Typical Junction Capacitance (NOTE 1) | 60 | | | | | | | pF |
| Operating and Storage Temperature Range | -65 to + 175 | | | | | | | °C |

NOTES:

1 Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{DC}.



SEMTECH ELECTRONICS LTD.
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P600A...P600M

PLASTIC SILICON RECTIFIERS

Fig. 1 – TYPICAL FORWARD CHARACTERISTICS

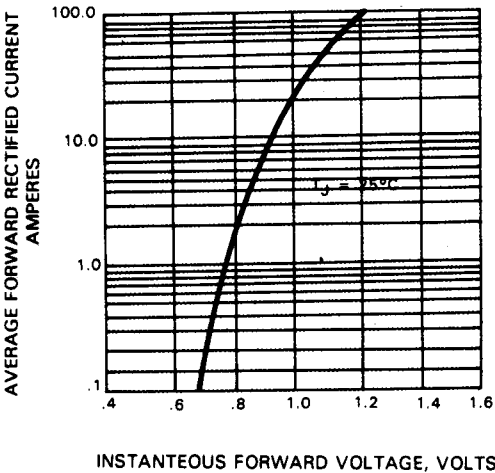


Fig.2 – PEAK FORWARD SURGE CURRENT

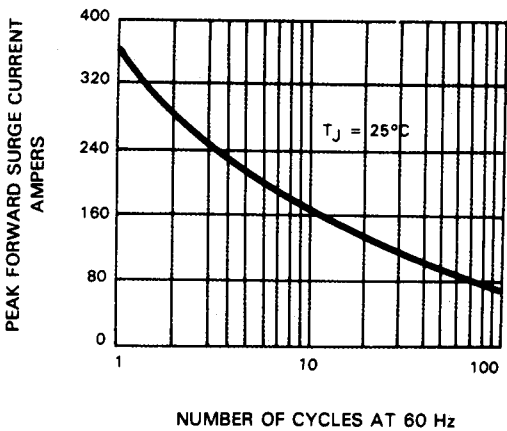


Fig. 3 – FORWARD CURRENT DERATING CURVE

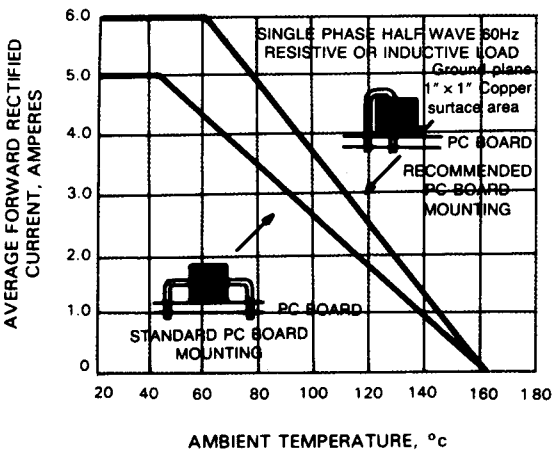


Fig. 4 – TYPICAL JUNCTION CAPACITANCE

