

INVERTER SCRS 650 to 1000 AMPERES

| TYPE | | C476 | C477 C478 | C446 | C447 C448 | | |
|----------------------------------|---|------------|---------------|------------|------------|-------|--|
| Voltage Range | | 500-1200 | 500-1200 | 500-1400 | 500-1400 | | |
| IT (RMS) | Max. RMS current @ 60Hz (A) Sinusoidal @ Tc=65°C 50% duty | 800 | 800 | 1000 | 1000 | | |
| ITSM | Max. peak one-cycle, 50HZ non-repetitive surge current (A) 60HZ | 5800 | 7210/6810 | 9500 | 9500 | | |
| | | 6000 | 7500/7000 | 10,000 | 10,000 | | |
| I ² t | Max. I ² t for fusing 1.5 msec (A ² sec) | 55,000 | 85,000/72,500 | 190,000 | 190,000 | | |
| RθJC | Max. thermal impedance, junction-to-case (°C/W) | .045 | .045 | .04 | .04 | | |
| tq | Typical turn-off time @ Rated Voltage, Max. Tj, (µsec) with 200v/µsec reapplied | 40 | 20-40/40 | 15 | 40/25 | | |
| di/dt | Rate-of-rise of on current (A/µs) | 800 | 800 | 800 | 800 | | |
| Tj | Operating junction temperature (°C) | -40 to 125 | -40 to 125 | -40 to 125 | -40 to 125 | | |
| QRR | Max. reverse recovered charge (µC) Tj =25°C | 40 | 90 | 50 | 150 | | |
| DV/dt | Max. critical rate-of-rise of off-state voltage @ max. rated Tj (V/µs) | 200 | 200 | 400 | 400 | | |
| IGT | Gate current to trigger @ -40°C (mA) @ + 25°C (mA) | 400 | 400 | 400 | 400 | | |
| | | 200 | 200 | 200 | 200 | | |
| VGT | Max. required gate voltage to trigger (V) (-40 to + 125 °C) | 5 | 5 | 5 | 5 | | |
| VTM | Peak on-state Voltage @ the following parameters | IMIN(A) | 300 | 300 | 100 | 100 | |
| | | IMAX(A) | 7000 | 7000 | 8000 | 8000 | |
| | | A | -2.32 | 3.04 | 1.8 | 1.8 | |
| | | B | 1.09 | -.31 | 0.3 | 0.3 | |
| | | C | .0013 | .0054 | .0004 | .0004 | |
| RθJC | Transient thermal resistance @ the following parameters | D | -.137 | .024 | -.01 | -.01 | |
| | | TMIN(S) | .001 | .001 | .001 | .001 | |
| | | TMAX(S) | .01 | .01 | .01 | .01 | |
| | | F | .292 | .292 | .08 | .08 | |
| | | G | .618 | .618 | .477 | .477 | |
| Package Outline. | | TO200AB | TO-200AB | TO-200AC | TO-200AC | | |
| Maximum Stud Torque (In-Lbs/N-M) | | | | | | | |
| Max. Mounting Force | Lbs KN | 2500 | 2500 | 3000 | 3000 | | |
| | | 11.1 | 11.1 | 13.3 | 13.3 | | |