

**MUR1505
THRU
MUR1560**

Features

- Glass passivated chip
- Superfast switching time for high efficiency
- Low reverse leakage current
- High surge capacity

Maximum Ratings

- Operating Temperature: - 55°C to +175°C
- Storage Temperature: - 55°C to +175°C

| Microsemi Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------------|----------------|--|---------------------|-----------------------------|
| MUR1505 | MUR1505 | 50V | 35V | 50V |
| MUR1510 | MUR1510 | 100V | 70V | 100V |
| MUR1520 | MUR1520 | 200V | 140V | 200V |
| MUR1540 | MUR1540 | 400V | 280V | 400V |
| MUR1560 | MUR1560 | 600V | 420V | 600V |

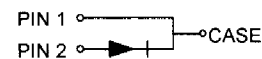
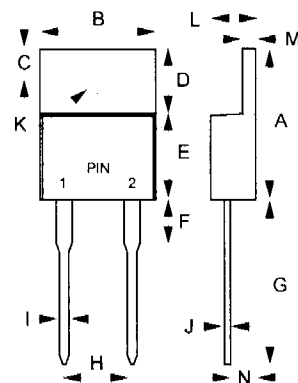
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|----------------|---|
| Average Forward Current | $I_{F(AV)}$ | 15.0A | $T_C = 120^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 150A | 8.3ms, half sine |
| Maximum Forward Voltage Drop Per Element 1505-1520 1540-1560 | V_F | 1.25V 2.0 V | $I_{FM} = 15A$ $T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10uA 1000uA | $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ |
| Maximum Reverse Recovery Time 1505-1520 1540-1560 | T_{rr} | 35ns 60ns | $I_F=0.5A, I_r=1.0A,$ $I_{rr}=0.25A$ |
| Typical Junction Capacitance | C_J | 160pF | Measured at 1.0MHz, $V_R=4.0V$ |

*Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

**15 Amp Super Fast
Glass Passivated
Rectifier
50 to 600 Volts**

TO-220AC



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|-------|------|
| | INCHES | | MM | | |
| A | .560 | .625 | 14.22 | 15.88 | |
| B | .380 | .420 | 9.65 | 10.67 | |
| C | .100 | .135 | 2.54 | 3.43 | |
| D | .230 | .270 | 5.84 | 6.86 | |
| E | .380 | .420 | 9.65 | 10.67 | |
| F | | .250 | | 6.35 | |
| G | .500 | .580 | 12.70 | 14.73 | |
| H | .190 | .210 | 4.83 | 5.33 | |
| I | .020 | .045 | 0.51 | 1.14 | |
| J | .012 | .025 | 0.30 | 0.64 | |
| K | .139 | .161 | 3.53 | 4.09 | |
| L | .140 | .190 | 3.56 | 4.83 | |
| M | .045 | .055 | 1.14 | 1.40 | |
| N | .080 | .115 | 2.03 | 2.92 | |