

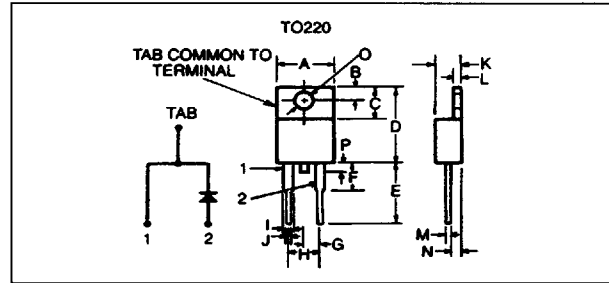
## 8 Amp Very Fast Recovery Rectifier

100 ns Recovery  
High Voltage  
High Junction Temperature  
Glass Passivated



| LTR. | INCHES     | MILLIMETERS |
|------|------------|-------------|
| A    | 0.415 MAX. | 10.54 MAX.  |
| B    | 0.108      | 2.74        |
| C    | 0.248      | 6.3         |
| D    | 0.605 MAX. | 15.37 MAX.  |
| E    | 0.552      | 14.02       |
| F    | 0.240 MAX. | 6.1 MAX.    |
| G    | 0.100      | 2.54        |
| H    | 0.200      | 5.08        |
| I    | 0.050      | 1.27        |
| J    | 0.032      | 0.81        |
| K    | 0.190 MAX. | 4.83 MAX.   |
| L    | 0.050      | 1.27        |
| M    | 0.022      | 0.56        |
| N    | 0.105      | 2.67        |
| O    | 0.143      | 3.63        |
| P    | 0.135 MAX. | 3.43 MAX.   |

Inch tolerances  $\pm .005$ .



### MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

| RATINGS   | SYMBOL    | TG84          | TG86 | TG88 | TG80 | UNITS            |
|---|-----------|---------------|------|------|------|------------------|
| Repetitive Peak Reverse Voltage                                   | $V_{RRM}$ | 400           | 600  | 800  | 1000 | V                |
| Forward Current (Average) @ $T_C = 75^\circ\text{C}$ (Fig. 1)     | $I_{FAV}$ | 8             |      |      |      | A                |
| Peak Forward Surge Current, $\frac{1}{2}$ Cycle, 60 Hz, per diode | $I_{FSM}$ | 100           |      |      |      | A                |
| Storage Temperature   | $T_{STG}$ | - 65 to + 150 |      |      |      | $^\circ\text{C}$ |
| Junction Operating Temperature                                    | $T_J$     | - 55 to + 150 |      |      |      | $^\circ\text{C}$ |

### ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

| CHARACTERISTICS   | SYMBOL          | UNITS                     |
|---|-----------------|---------------------------|
| Maximum Instantaneous (Fig. 2)<br>Reverse Current at Rated $V_{RRM}$<br>$T_J = 25^\circ\text{C}$<br>$T_J = 100^\circ\text{C}$ | $I_r$           | 5<br>500<br>$\mu\text{A}$ |
| Maximum Instantaneous Forward Voltage @ 8 Amp (Fig. 3)  | $V_F$           | 1.95<br>V                 |
| Reverse Recovery Time $I_F = 0.5\text{A}$ , $I_R = 1\text{A}$ , $I_{REC} = 0.25\text{A}$                                      | $t_{rr}$        | 100<br>nsec               |
| Typical Junction Capacitance, $V_R = 10\text{V}$ (Fig. 4)   | $C_J$           | 40<br>pF                  |
| Thermal Resistance, Junction-to-Case  | $R_{\theta JC}$ | 3.0<br>$^\circ\text{C/W}$ |

\* $V_{RRM}$  represents the minimum junction breakdown voltage. Lead spacing and printed wiring conductor clearances must be evaluated based on ambient conditions.