



|  |          |     |    |
|--|----------|-----|----|
| Peak pulse voltage<br>( $T_j=25$ ; non-repetitive, off-state; FIG.7) | $V_{pp}$ | 1.2 | kV |
|--|----------|-----|----|

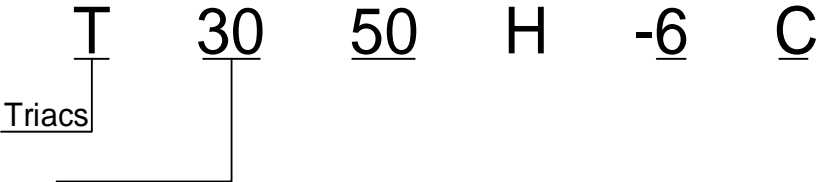
## ELECTRICAL CHARACTERISTICS (unless otherwise specified)

| Symbol      | Test Condition                                | Quadrant | Value |      | Unit |
|-------------|---|----------|-------|------|------|
| $I_{GT}$    | $V_D=12V$ $R_L=33$                            | - -      | MAX.  | 50   | mA   |
| $V_{GT}$    |   | - -      | MAX.  | 1.3  | V    |
| $V_{GD}$    | $V_D=V_{DRM}$ $T_j=150$<br>$R_L=3.3k$         | - -      | MIN.  | 0.15 | V    |
| $I_L$       | $I_G=1.2I_{GT}$                               | -        | MAX.  | 80   | mA   |
|             |   |          |       | 90   |      |
| $I_H$       | $I_T=500mA$                                   |          | MAX.  | 60   | mA   |
| $dV/dt$     | $V_D=400V$ Gate Open $T_j=150$                |          | MIN.  | 2200 | V/s  |
| $(dI/dt)_c$ | $V_D=150V$ $T_j=150$                          |          | MIN.  | 30   | A/ms |
| $t_{on}$    | $I_G=80mA$ $I_A=400mA$ $I_R=40mA$<br>$T_j=25$ |          | TYP.  | 15   | s    |
| $t_{off}$   |   |          |       | 100  |      |

## STATIC CHARACTERISTICS

| Symbol    | Parameter                   |           | Value(MAX.) | Unit |
|-----------|-----------------------------|-----------|-------------|------|
| $V_{TM}$  | $I_{TM}=42A$ $t_p=380$ s    | $T_j=25$  | 1.5         | V    |
| $V_{TO}$  | Threshold voltage           | $T_j=150$ | 0.7         | V    |
| $R_D$     | Dynamic resistance          | $T_j=150$ | 16          | m    |
| $I_{DRM}$ | $V_D=V_{DRM}$ $V_R=V_{RRM}$ | $T_j=25$  | 5           | A    |
| $I_{RRM}$ |                             | $T_j=150$ | 5           | mA   |

ORDERING INFORMATION







T3050H-6C

PACKAGE MECHANICAL DATA



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