| | | | |
|---|---|---|---|
| Peak pulse voltage ($T_j$=25 ; non-repetitive,off-state;FIG.7) | $V_{PP}$ | 3.5 | kV |

($T_j$=25 unless otherwise specified)

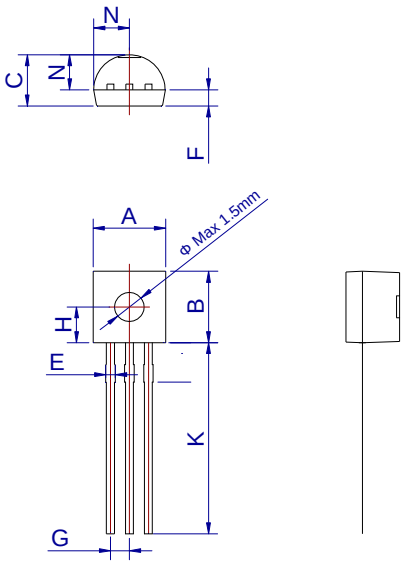
| Symbol | Test Condition | Quadrant | Value | | Unit |
|---|---|---|---|---|---|
| $I_{GT}$ | $V_D$=12V $R_L$=33Ω | - - | MAX. | 5 | mA |
| | | | | 10 | |
| $V_{GT}$ | | ALL | MAX. | 1.3 | V |
| $V_{GD}$ | $V_D$=$V_{DRM}$ $T_j$=125 $R_L$=3.3kΩ | ALL | MIN. | 0.2 | V |
| $I_L$ | $I_G$=1.2$I_{GT}$ | - - | MAX. | 5 | mA |
| | | | | 20 | |
| $I_H$ | $I_T$=50mA | | MAX. | 7 | mA |
| dV/dt | $V_D$=540V Gate Open $T_j$=110 | | MIN. | 100 | V/μs |
| (dV/dt)c | (dI/dt)c=0.44A/ms, $T_j$=110 | | MIN. | 3 | V/μs |
| $t_{on}$ | $I_G$=20mA $I_A$=200mA $I_R$=20mA $T_j$=25 | | TYP. | 2.5 | μs |
| $t_{off}$ | | | | 25 | |

| Symbol | Parameter | Value(MAX.) | Unit |
|---|---|---|---|
| $V_{TM}$ | | | |

**FIG.1:** Maximum power dissipation versus RMS on-state current



**FIG.2:** RMS on-state current versus case temperature


N
C
N
F
A
Φ Max 1.5mm
B
H
E
K
G

| PACKAGE | OUTLINE | BAG (PCS) | INNER BOX (PCS) | CARTON BOX (PCS) |
|---|---|---|---|---|
| TO-92 | Bulk Pack | 1,000 | 10,000 | 50,000 |

| | | | |
|---|---|---|---|
| W2 | | | 1.00 |
| D0 | 3.80 | 4.00 | 4.20 |
| H | -1.00 | 0 | 1.00 |
| L1 | 2.50 | | |
| H | 18.00 | 19.00 | 20.00 |