| | | | |
|---|---|---|---|
| Peak pulse voltage ($T_j$=25 ; non-repetitive,off-state;FIG.7) | $V_{pp}$ | 4 | kV |

## ELECTRICAL CHARACTERISTICS ($T_j$=25 unless otherwise specified)

| Symbol | Test Condition | Quadrant | Value | | Unit |
|---|---|---|---|---|---|
| $I_{GT}$ | $V_D$ =12V $R_L$ =33 | - - | MAX. | 10 | mA |
| $V_{GT}$ | | - - | MAX. | 1 | V |
| $V_{GD}$ | $V_D$ =$V_{DRM}$ $T_j$ =125 $R_L$ =3.3k | - - | MIN. | 0.2 | V |
| $I_L$ | $I_G$ =1.2$I_{GT}$ | - | MAX. | 25 | mA |
| | | | | 30 | |
| $I_H$ | $I_T$ =500mA | | MAX. | 15 | mA |
| dV/dt | $V_D$=400V Gate Open $T_j$ =125 | | MIN. | 500 | V s |
| (dI/dt)c | (dV/dt)c=1 9 $V_j$=125 | | MIN. | 3 | A/ms |
| $t_{on}$ | $I_G$=20mA $I_A$=200mA $I_R$=20mA $T_j$=25 | | TYP. | 2.5 | s |
| $t_{off}$ | | | | 25 | |

## STATIC CHARACTERISTICS

| Symbol | Parameter | | Value(MAX .) | Unit |
|---|---|---|---|---|
| $V_{TM}$ | $I_{TM}$ =17A $t_p$=380 s | $T_j$=25 | 1.5 | V |
| $V_{TO}$ | Threshold voltage | $T_j$=125 | 0.77 | V |
| $R_D$ | Dynamic resistance | $T_j$=125 | 35 | P |
| $I_{DRM}$ | $V_D$ =$V_{DRM}$ $V_R$ =$V_{RRM}$ | $T_j$=25 | 5 | A |
| $I_{RRM}$ | | $T_j$=125 | 0.4 | |

ORDERING INFORMATION

J ST 12 h3 Q (86)13.7 SWc -5.2

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

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

PACKAGE MECHANICAL DATA



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