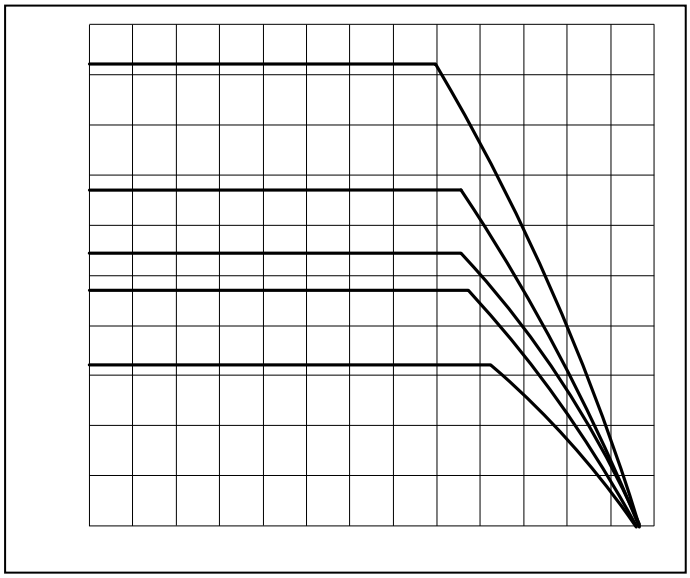
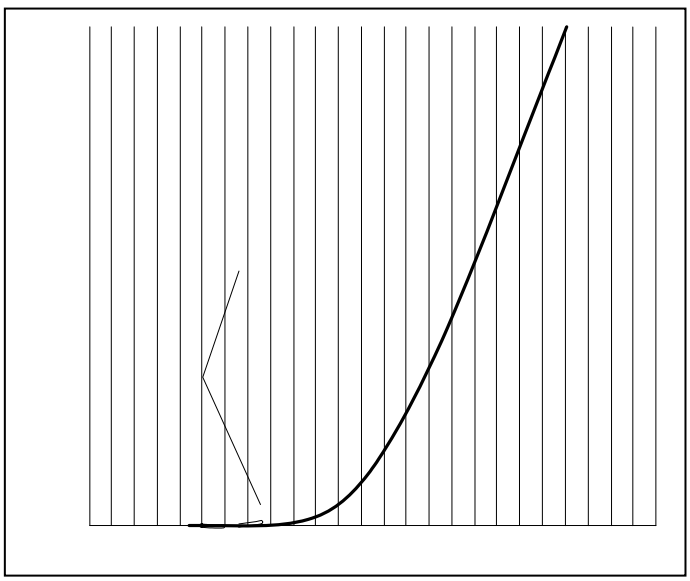
| | | | |
|---|---|---|---|
| | | f 15% | Nm |
| di/dt | $T_{VJ}$= $T_{VJM}$ , 2/3$V_{DRM}$ ,$I_G$ =500mA<br>Tr<0.5us,tp>6us | 150 | A/us |
| dv/dt | $T_J$= $T_{VJM}$ ,2/3$V_{DRM}$ linear voltage rise | 1000 | V/us |

## Electrical Characteristics

| Symbol | Conditions | Values | | | Units |
|---|---|---|---|---|---|
| | | Min. | Typ. | Max. | |
| $V_{TM}$ | T=25 $I_{TM}$ =200A | | | 1.95 | V |
| $I_{RRM}/I_{DRM}$ | $T_{VJ}$ =$T_{VJM}$ ,$V_R$=$V_{RRM}$ ,$V_D$=$V_{DRM}$ | | | 15 | mA |
| $V_{TO}$ | For power-loss calculations only ($T_{VJ}$ =125 ) | | | 1.0 | V |
| $r_T$ | $T_{VJ}$ =$T_{VJM}$ | | | 4.5 | mΩ |
| $V_{GT}$ | $T_{VJ}$ =25 , $V_D$ =6V | | | 2.5 | V |
| $I_{GT}$ | $T_{VJ}$ =25 , $V_D$ =6V | | | 150 | mA |
| $V_{GD}$ | $T_{VJ}$ =125 , $V_D$ =2/3$V_{DRM}$ | | | 0.25 | V |
| $I_{GD}$ | $T_{VJ}$ =125 , $V_D$ =2/3$V_{DRM}$ | | | 6 | mA |
| $I_L$ | $T_{VJ}$ =25 , $R_G$ = 33 Ω | | 300 | 600 | mA |
| $I_H$ | $T_{VJ}$ =25 , $V_D$ =6V | | 150 | 250 | mA |
| tgd | $T_{VJ}$ =25 , $I_G$=1A, $di_G/dt$=1A/us | | 1 | | us |
| tq | $T_{VJ}$ =$T_{VJM}$ | | 80 | | us |

Performance Curves





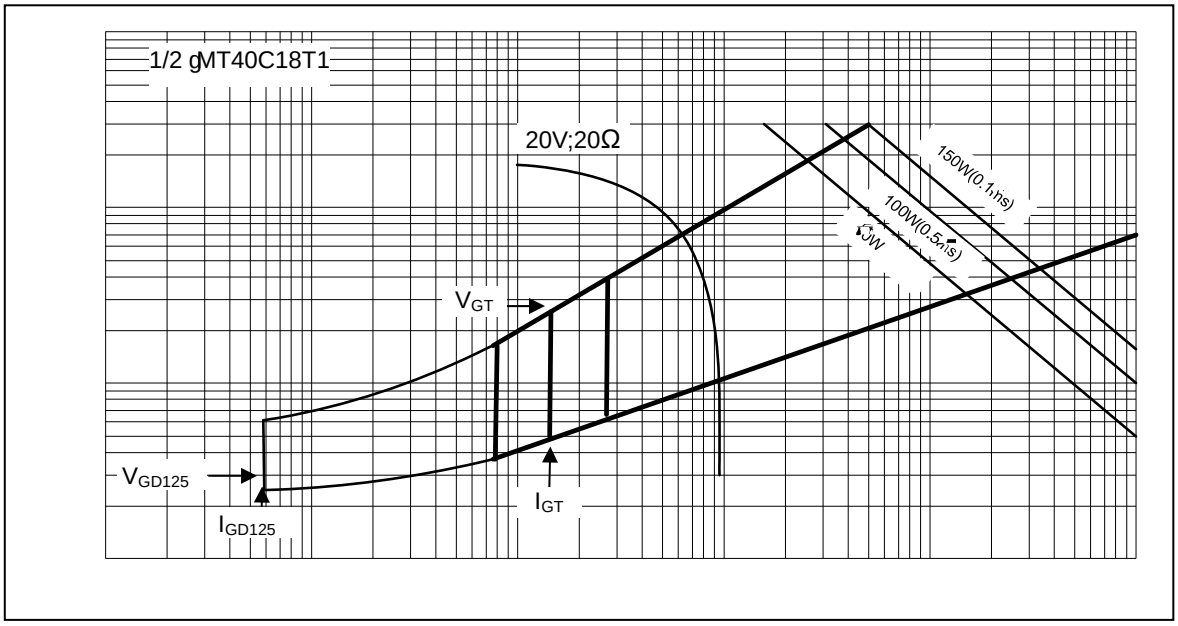
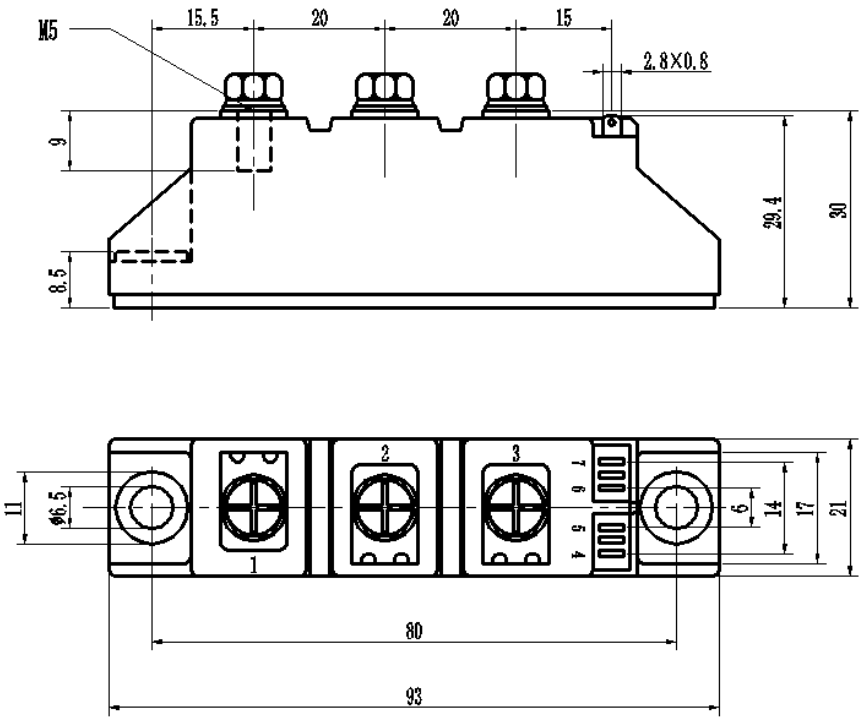



Fig6. Gate trigger Characteristics

## Package Outline Information

CASE: T1




Dimensions in mm