

iscN-Channel MOSFET Transistor

TK4P60DB

| FEATURES Low drain-source on-resistance: RDS(ON) = 2Ω (MAX) Enhancement mode: Vth = 2.4 to 4.4V (VDS = 10 V, ID=1.0mA) 100% avalanche tested Minimum Lot-to-Lot variations for robust device performance and reliable operation DESCRITION Switching Voltage Regulators | | | | |
|---|-------------------------------------|---------|------|--|
| SYMBOL | PARAMETER | VALUE | UNIT | |
| V _{DSS} | Drain-Source Voltage | 600 | V | |
| V _{GS} | Gate-Source Voltage | ±30 | V | |
| ID | Drain Current-Continuous | 3.7 | A | |
| I _{DM} | Drain Current-Single Pulsed | 14.8 | А | |
| PD | Total Dissipation @Tc=25℃ | 80 | W | |
| Tj | Max. Operating Junction Temperature | 150 | °C | |
| | | -55~150 | °C | |
| T _{stg} | Storage Temperature | | | |
| | | | | |
| | | MAX | UNIT | |

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ELECTRICAL CHARACTERISTICS

$T_{\texttt{C}}\text{=}25^{\circ}\!\!\!\mathbb{C}$ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | ТҮР | МАХ | UNIT |
|---------------------|--------------------------------|--|-----|-----|-----|------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; I _D = 10mA | 600 | | | V |
| $V_{GS(th)}$ | Gate Threshold Voltage | V _{DS} = 10V; I _D =1.0mA | 2.4 | | 4.4 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} =10V; I _D =1.9A | | | 2 | Ω |
| lgss | Gate-Source Leakage Current | V _{GS} = ±30V;V _{DS} =0V | | | ±1 | μA |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} =600V; V _{GS} = 0V | | | 10 | μA |
| V _{SDF} | Diode forward voltage | I _{DR} =3.7A, V _{GS} = 0 V | | | 1.7 | v |



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