

isc N-Channel MOSFET Transistor

IXTA98N075T

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤ 10mΩ@V_{GS}=10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

- DC/DC Converters
- High Current Switching Applications

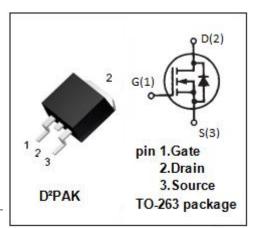


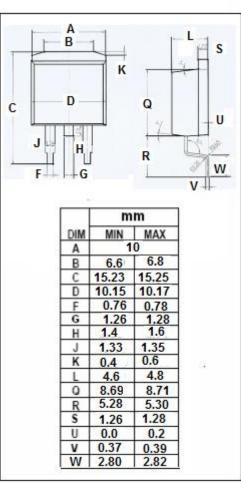
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|---|---------|------------|
| V _{DSS} | Drain-Source Voltage | 75 | V |
| V _{GS} | Gate-Source Voltage | ±20 | V |
| I _D | Drain Current-Continuous | 98 | Α |
| І _{ОМ} | Drain Current-Single Pulsed | 280 | Α |
| P _D | Total Dissipation @T _C =25°C | 230 | W |
| Tj | Operating Junction Temperature | -55~175 | $^{\circ}$ |
| T _{stg} | Storage Temperature | -55~175 | °C |

• THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|----------------------|-------------------------------------|------|------|
| R _{th(j-c)} | Junction-to-case thermal resistance | 0.65 | °C/W |







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | MAX | UNIT |
|---------------------|--------------------------------|--|-----|------|------------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; ID = 250 μ A | 75 | | ٧ |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =V _{GS} ; ID = 100 μ A | 2.0 | 4.0 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} =10V; I _D = 25A | | 10 | mΩ |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} = ±20V;V _{DS} =0V | | ±200 | nA |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} = V _{DSS} ; V _{GS} = 0V | | 2 | μ А |
| | | V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C | | 150 | |
| VsD | Diode forward voltage | I _F = 98A; V _{GS} = 0V | | 1.5 | V |



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