

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXFH230N075T2

FEATURES

Static drain-source on-resistance:

 $R_{DS}(on) \le 4.2m\Omega @V_{GS}=10V$

- · Fully characterized avalanche voltage and current
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

SYMBOL

VDSS

 V_{GS}

ΙD

IDM

 \mathbf{P}_{D}

Τį

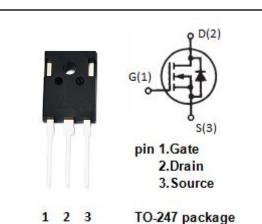
Tsta

SYMBOL

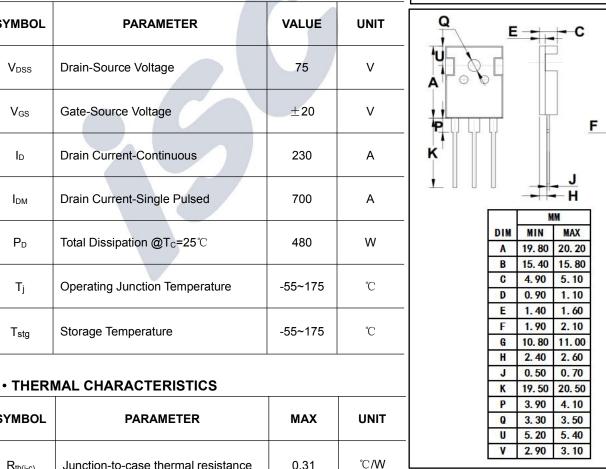
R_{th(j-c)}

- DC/DC Converters
- High Current Switching Applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



в



0.31

1

Junction-to-case thermal resistance



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | МАХ | UNIT |
|---------------------|--------------------------------|--|-----|------|------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; ID = 250 μ A | 75 | | V |
| $V_{GS(th)}$ | Gate Threshold Voltage | V _{DS} =V _{GS} ; ID = 1mA | 2.0 | 4.0 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} =10V; I _D = 50A | | 4.2 | 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 | | 25 | - μΑ |
| | | V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C | | 250 | |
| Vsd | Diode forward voltage | I _F = 100A; V _{GS} = 0V | | 1.3 | V |

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