

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTQ26N50P

• FEATURES

- With TO-3PN packaging
- · High speed switching
- Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Power supply
- Switching applications

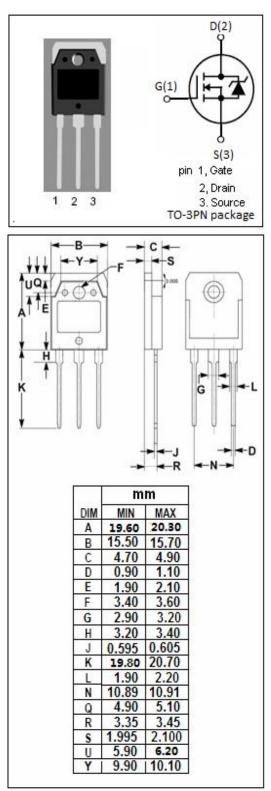
| • ABSOLUTE MAXIMUM RATINGS(Ta=25 C) | | | | | | | | |
|-------------------------------------|--------------------------------|---------|------|--|--|--|--|--|
| SYMBOL | PARAMETER | VALUE | UNIT | | | | | |
| V _{DSS} | Drain-Source Voltage | 500 | V | | | | | |
| V _{GSS} | Gate-Source Voltage | ±30 | ∧v | | | | | |
| ID | Drain Current-Continuous | 26 | A | | | | | |
| I _{DM} | Drain Current-Single Pulsed | 78 | А | | | | | |
| P _D | Total Dissipation | 400 | W | | | | | |
| Tj | Operating Junction Temperature | -55~150 | °C | | | | | |
| T _{stg} | Storage Temperature | -55~150 | °C | | | | | |

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

• THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | МАХ | UNIT |
|-----------|------------------------------------|------|------|
| Rth(ch-c) | Channel-to-case thermal resistance | 0.31 | °C/W |

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isc website: www.iscsemi.cn

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ELECTRICAL CHARACTERISTICS

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

| SYMBOL | PARAMETER | CONDITIONS | MIN | ТҮР | МАХ | UNIT |
|----------------------|--------------------------------|---|-----|-----|------|------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; I _D =0.25mA | 500 | | | V |
| V _{GS} (th) | Gate Threshold Voltage | V _{DS} =±30V; I _D =0.25mA | 3.0 | | 5.5 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D =13A | | | 230 | mΩ |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} = ±30V;V _{DS} = 0V | | | ±0.1 | μA |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} = 500V; V _{GS} = 0; | | | 25 | μA |
| VSDF | Diode forward voltage | I _{SD} =26A, V _{GS} = 0 V | | | 1.5 | V |

NOTICE:

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