

Isc N-Channel MOSFET Transistor

IXTK110N20L2

FEATURES

- With TO-3PL package
- · Low input capacitance and gate charge
- · High speed switching
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

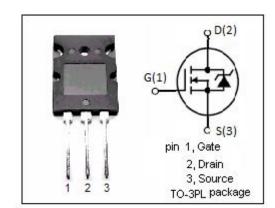
- · Switching applications
- · Load switch
- Power management

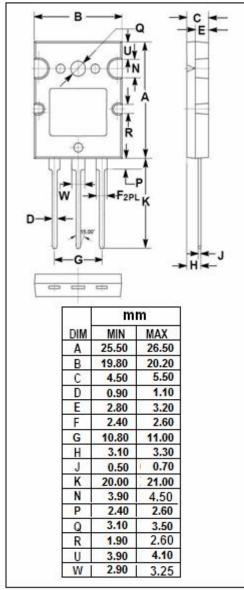
• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|---|-------------------------------------|------------|
| V _{DSS} | Drain-Source Voltage | 200 | V |
| V_{GSS} | Gate-Source Voltage | ±30 | V |
| I _D | Drain Current-Continuous | А | |
| I _{DM} | Drain Current-Single Pulsed 275 | | А |
| P_D | Total Dissipation @T _C =25℃ | esipation @T _C =25°C 960 | |
| Tj | Max. Operating Junction Temperature 150 | | $^{\circ}$ |
| T _{stg} | Storage Temperature | -55~150 | °C |

• THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|-----------|---------------------------------------|------|------|
| Rth(ch-c) | Channel-to-case thermal resistance | 0.13 | °C/W |
| Rth(ch-a) | Channel-to-ambient thermal resistance | 62.5 | °C/W |







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | ТҮР | MAX | UNIT |
|---------------------|--------------------------------|---|-----|-----|------------|------------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; I _D = 1mA | 200 | | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =V _{GS} ; I _D =3mA | 2.0 | | 4.5 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D =55A | | | 24 | mΩ |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} = ±20V;V _{DS} = 0V | | | ±0.2 | μА |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} =200V; V _{GS} = 0V;Tc=25℃ Tc=125℃ | | | 50 2500 | μ А |
| V _{SDF} | Diode forward voltage | I _{SD} =55A, V _{GS} = 0V | | | 1.35 | V |

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