

Isc N-Channel MOSFET Transistor

IPB156N22NFD

• FEATURES

- · With To-252(DPAK) package
- · Low input capacitance and gate charge
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications

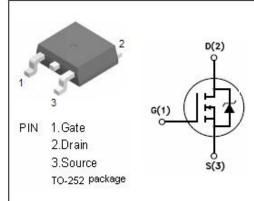


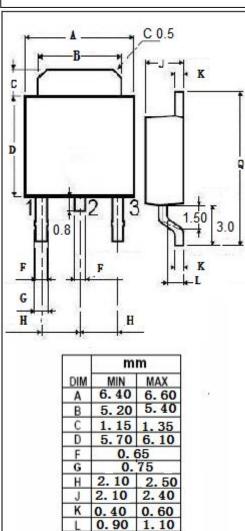
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

| SYMBOL | PARAMETER | VALUE | UNIT | |
|------------------|---|----------|----------------------|--|
| V _{DSS} | Drain-Source Voltage | 220 | V | |
| V _{GSS} | Gate-Source Voltage | ±20 | V | |
| I _D | Drain Current-ContinuousTc=25℃ Tc=100℃ | 72 56 | А | |
| I _{DM} | Drain Current-Single Pulsed | 288 | Α | |
| P _D | Total Dissipation @Tc=25℃ | 300 | W | |
| T _{ch} | Max. Operating Junction Temperature | 175 | $^{\circ}\mathbb{C}$ | |
| T _{stg} | Storage Temperature | -55~175 | $^{\circ}\mathbb{C}$ | |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | | UNIT | |
|-----------|---------------------------------------|-----|------|--|
| Rth(ch-c) | Channel-to-case thermal resistance | 0.5 | °C/W | |
| Rth(ch-a) | Channel-to-ambient thermal resistance | 62 | °C/W | |







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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | ТҮР | MAX | UNIT |
|---------------------|--------------------------------|---|-----|------|----------|------|
| BV _{DSS} | Drain-Source Breakdown Voltage | V _{GS} =0V; I _D = 1mA | 220 | | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =5V; I _D =0.27mA | 2.0 | | 4.0 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} = 10V; I _D =50A | | 12.9 | 15.6 | mΩ |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} = ±30V;V _{DS} = 0V | | | ±0.1 | μА |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} =176V; V _{GS} = 0V;Tj=25°C V _{DS} =176V; V _{GS} = 0V;Tj=125°C | | | 1 100 | μА |
| V _{SDF} | Diode forward voltage | I _{SD} =72A, V _{GS} = 0 V | | | 1.2 | V |

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