

isc N-Channel MOSFET Transistor

IRFB7534, IIRFB7534

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤2.4mΩ
- Enhancement mode
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

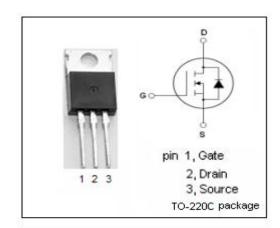
• reliable device for use in a wide variety of applications

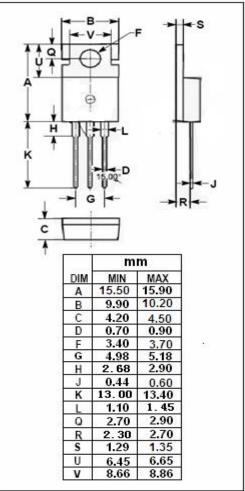
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT |
|------------------|--|---------|---------------|
| V _{DSS} | Drain-Source Voltage | 60 | V |
| V_{GS} | Gate-Source Voltage | ±20 | V |
| I_D | Drain Current-Continuous | 195 | А |
| I _{DM} | Drain Current-Single Pulsed | 944 | А |
| P_D | Total Dissipation @T _C =25℃ | 294 | W |
| Tj | Max. Operating Junction Temperature | 175 | ${\mathbb C}$ |
| T _{stg} | Storage Temperature | -55~175 | $^{\circ}$ |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|-----------|---|------|------|
| Rth(ch-c) | Channel-to-case thermal resistance | 0.51 | °C/W |
| Rth(ch-a) | h(ch-a) Channel-to-ambient thermal resistance | | °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 = 250 μ A | 60 | | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} =V _{GS} ; I _D =250 μ A | 2.1 | | 3.7 | V |
| R _{DS(on)} | Drain-Source On-Resistance | V _{GS} =10V; I _D =100A | | | 2.4 | mΩ |
| I _{GSS} | Gate-Source Leakage Current | V _{GS} =±20V | | | ±0.1 | μА |
| I _{DSS} | Drain-Source Leakage Current | V _{DS} =60V; V _{GS} = 0V | | | 1.0 | μА |
| V _{SD} | Diode forward voltage | Is =100A, V _{GS} = 0 V | | | 1.2 | V |

NOTICE:

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