

isc N-Channel MOSFET Transistor

IRFJ240

DESCRIPTION

- Drain Current –I_D= 13A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 200V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.18 \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



 Designed for low voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

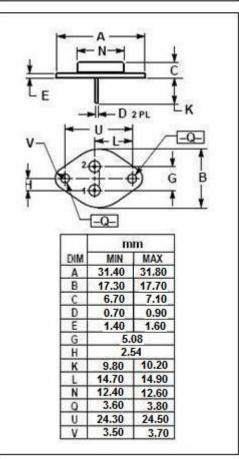
pin 1, Gate 2, Drain 3, Source TO-66 package

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | ARAMETER | VALUE | UNIT |
|------------------|---|---------|------------|
| V _{DSS} | Drain-Source Voltage (V _{GS} =0) | 200 | V |
| V _{GS} | Gate-Source Voltage | ±20 | V |
| I _D | Drain Current-continuous@ TC=25°C | 13 | Α |
| P _{tot} | Total Dissipation@TC=25°C | 70 | W |
| Tj | Max. Operating Junction Temperature | -55~150 | °C |
| T _{stg} | Storage Temperature Range | -55~150 | $^{\circ}$ |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | MAX | UNIT |
|---------------------|-------------------------------------|-----|------|
| R _{th j-c} | Thermal Resistance,Junction to Case | 1.8 | °C/W |





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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

| SYMBOL | PARAMETER | CONDITIONS | MIN | MAX | UNIT |
|----------------------|----------------------------------|---|-----|------|------|
| V _{(BR)DSS} | Drain-Source Breakdown Voltage | V _{GS} = 0; I _D = 0.25mA | 200 | | V |
| V _{GS(th)} | Gate Threshold Voltage | V _{DS} = V _{GS} ; I _D = 0.25mA | 2 | 4 | V |
| R _{DS(on)} | Drain-Source On-stage Resistance | V _{GS} =10V; I _D = 7A | | 0.18 | Ω |
| Igss | Gate Source Leakage Current | V _{GS} = ±20V;V _{DS} = 0 | | ±100 | nA |
| I _{DSS} | Zero Gate Voltage Drain Current | V _{DS} = 160V; V _{GS} = 0 | | 250 | uA |
| V _{SD} | Diode Forward Voltage | I _F = 13A; V _{GS} =0 | | 2.0 | V |



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