

isc N-Channel MOSFET Transistor

IRF1404, IIRF1404

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤4.0mΩ
- Enhancement mode
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

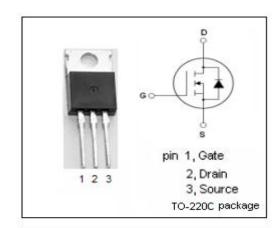
• reliable device for use in a wide variety of applications

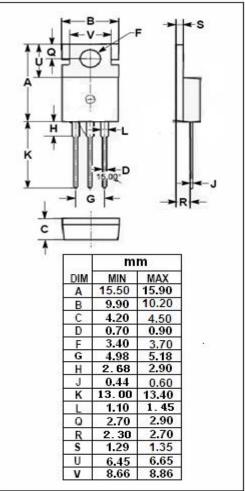
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	40	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	202	А
I _{DM}	Drain Current-Single Pulsed	808	А
P _D	Total Dissipation @T _C =25℃	333	W
Tj	Max. Operating Junction Temperature	175	${\mathbb C}$
T _{stg}	Storage Temperature	-55~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.45	°C/W
Rth(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	40			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =121A			4.0	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V			±0.2	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =40V; V _{GS} = 0V			20	μ A
V _{SD}	Diode forward voltage	Is=121A, V _{GS} = 0 V			1.5	V

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