

isc N-Channel MOSFET Transistor

IRF3315, IIRF3315

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤70mΩ
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

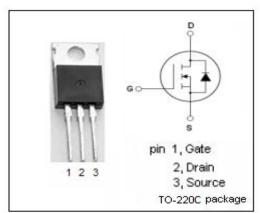
• Combine with the fast switching speed and ruggedized device design

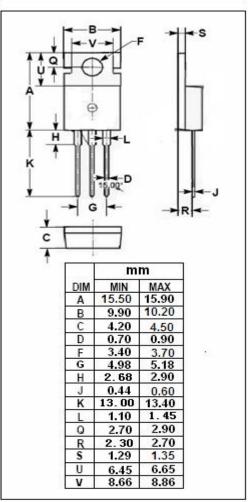
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{ extsf{DSS}}$	Drain-Source Voltage	150	V
V _{GS}	Gate-Source Voltage ±20		V
I _D	Drain Current-Continuous 23		А
I _{DM}	Drain Current-Single Pulsed 84		А
P _D	Total Dissipation @T _C =25℃	otal Dissipation @Tc=25°C 94	
Tj	Max. Operating Junction Temperature	nperature 175	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.6	°C/W
Rth(ch-a)	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	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =250 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =12A			70	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =150V; V _{GS} = 0V			25	μА
V _{SD}	Diode forward voltage	Is=12A; V _{GS} = 0V			1.3	V

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