

isc P-Channel MOSFET Transistor

IRF9530N,IIRF9530N

• FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \leqslant 0.2 \Omega$
- · Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

• Combine with the fast switching speed and ruggedized device design, provide the designer with an extremely efficient and reliable device for use in a wide variety of applications.

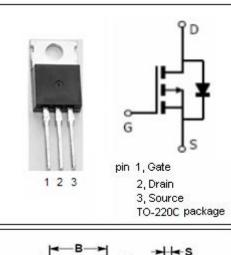
• ADSOLUTE MAXIMUM RATINGS(Ta=25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	-100	V				
V _{GS}	Gate-Source Voltage	±20	V				
lD	Drain Current-Continuous	-14	A				
I _{DM}	Drain Current-Single Pulsed -56		A				
PD	otal Dissipation @T _c =25°C 79		W				
Tj	Max. Operating Junction Temperature	175	°C				
T _{stg}	Storage Temperature -55~175		°C				

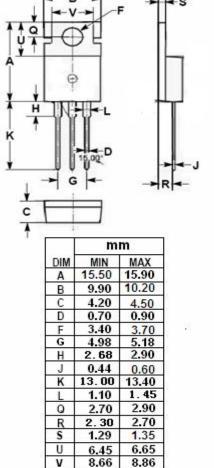
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
Rth(j-c)	Channel-to-case thermal resistance	1.9	°C/W	
Rth(j-a)	Channel-to-ambient thermal resistance	62	°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	-100			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D = -250 µ A	-2.0		-4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D = -8.4A			0.2	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = -100V; V _{GS} = 0V			-25	μ Α
V _{SD}	Diode forward voltage	Is= -8.4A; V _{GS} = 0V			-1.6	V

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