

INCHANGE SEMICONDUCTOR

Isc N-Channel MOSFET Transistor

IRF630NS

• FEATURES

- With TO-263(D² PAK) packaging
- · High speed switching
- · Low gate input resistance
- Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power supply
- Switching applications

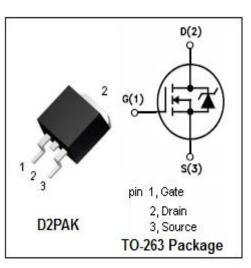
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

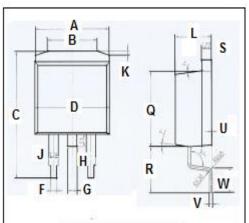
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	V		
V_{GS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous	А		
P _D	Total Dissipation @Tc=25°C	ation @T _c =25°C 82		
Tj	Max. Operating Junction Temperature	-55~175	°C	
T _{stg}	Storage Temperature -55~175		°C	

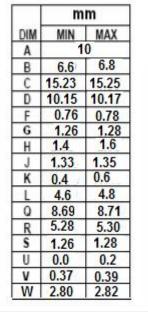
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.83	°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 = 250uA	200			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = 250uA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5.4A			300	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = ±20V; V_{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 200V; V _{GS} = 0V			25	μA
V _{SD}	Diode forward voltage	I _S = 5.4A, V _{GS} = 0V			1.3	V



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