

Isc N-Channel MOSFET Transistor

IRFS41N15D

• FEATURES

- With To-262 package
- · Low input capacitance and gate charge
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Switching applications

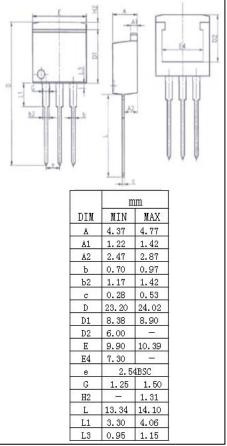


	G(1) D(2)
1 2 3	pin 1, Oate 2, Drain 3, Source TO-262 package

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	V
V _G SS	Gate-Source Voltage	±30	V
I _D	Drain Current-ContinuousTc=25℃ Tc=100℃	41 29	А
I _{DM}	Drain Current-Single Pulsed	164	А
P _D	Total Dissipation @Tc=25℃	200	W
T _{ch}	Max. Operating Junction Temperature	175	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~175	$^{\circ}$
		1	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.75	°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =0.25mA	150			V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D =0.25mA	3.0		5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =25A			45	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = $\pm 20V; V_{DS}$ = $0V$			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =150V; V _{GS} = 0V;Tj=25°C V _{DS} =120V; V _{GS} = 0V;Tj=125°C			25 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =25A, V _{GS} = 0 V			1.3	V

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