

Isc N-Channel MOSFET Transistor

IRFS4615

D(2)

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

		pin 1, Gete 3 2, Drain 3, Source			
SYMBOL	PARAMETER	VALUE	UNIT	1 ~ TO-262 package	
V _{DSS}	Drain-Source Voltage	150	V		
V _{GSS}	Gate-Source Voltage	±20	v		
ID	Drain Current-ContinuousTc=25℃ Tc=100℃	33 24	А	<u>b2</u>	
I _{DM}	Drain Current-Single Pulsed	140	A		
PD	Total Dissipation @Tc=25℃	144	W	DIM MIN MAX A 4.37 4.77 A1 1.22 1.42 A2 2.47 2.87	
T _{ch}	Max. Operating Junction Temperature	175	°C	b 0.70 0.97 b2 1.17 1.42 c 0.28 0.53 D 23.20 24.02	
T _{stg}	Storage Temperature	-55~175	°C	D1 8.38 8.90 D2 6.00 E 9.90 10.39 E4 7.30	
• THERM		e 2.54BSC G 1.25 1.50 H2 - 1.31			
SYMBOL	PARAMETER	МАХ	UNIT	L 13.34 14.10 L1 3.30 4.06 L3 0.95 1.15	

1.05

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°C/W

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Channel-to-case thermal resistance

Rth(ch-c)



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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 =0.25mA	150			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.1mA	3.0		5.0	v
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =21A		34.5	42	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =150V; V _{GS} = 0V;Tj=25℃ V _{DS} =120V; V _{GS} = 0V;Tj=125℃			20 250	μA
V _{SDF}	Diode forward voltage	I _{SD} =21A, V _{GS} = 0 V			1.3	V



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