

Isc N-Channel MOSFET Transistor

IRFS4615

• 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

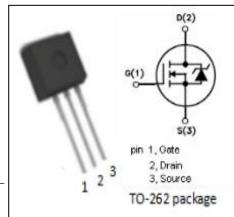
· Switching applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-ContinuousTc=25℃ Tc=100℃	33 24	А
I _{DM}	Drain Current-Single Pulsed	140	А
P _D	Total Dissipation @T _c =25°C	144	W
T _{ch}	Max. Operating Junction Temperature	175	°C
T _{stg}	Storage Temperature	-55~175	°C

• THERMAL CHARACTERISTICS

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SYMBOL		PARAMETER	MAX	UNIT	
	Rth(ch-c)	Channel-to-case thermal resistance	1.05	°C/W	



	10 HZ			4
		n	ım	
	DIM	MIN	MAX	
	A	4.37	4.77	
	A1	1.22	1.42	
	A2	2.47	2.87	
	Ъ	0.70	0.97	
	Ъ2	1.17	1.42	
	С	0.28	0.53	
	D	23.20	24.02	
	D1	8.38	8.90	
	D2	6.00	-8	
	E	9.90	10.39	
[E4	7.30	_	
	е	2.54BSC		
	G	1.25	1.50	
	H2	% 	1.31	
[L	13.34	14.10	
	L1	3.30	4.06	
	L3	0.95	1.15	



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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 =0.1mA	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} = $\pm 20V; V_{DS}$ = $0V$			±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			20 250	μА	
V _{SDF}	Diode forward voltage	I _{SD} =21A, V _{GS} = 0 V			1.3	V	



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