

Isc N-Channel MOSFET Transistor

IRFSL5615

• 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

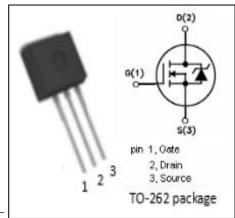
· Switching applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{DSS}	Drain-Source Voltage	150	V	
V_{GSS}	Gate-Source Voltage	±20	V	
l _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℃	144	W	
T _{ch}	Max. Operating Junction Temperature	175	$^{\circ}$	
Tstg	Storage Temperature	-55~175	${\mathbb C}$	

• THERMAL CHARACTERISTICS

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



	7	A.	1 5	7
6 - G	27	A		14 2
			ım	1
	DIM	MIN	MAX	1
	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		4BSC	
	G	1.25	1.50	
	H2	10-	1.31	
	L	13.34	14.10	
	L1	3.30	4.06	
	L3	0.95	1.15	1



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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} = ±20V;V _{DS} =0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =150V; V _{GS} = 0V;Tj=25°C V _{DS} =150V; 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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