

Isc N-Channel MOSFET Transistor

IRL2910L

• FEATURES

- With To-263(D2PAK) 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

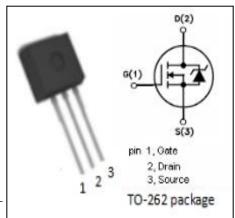
· Switching applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V_{GSS}	Gate-Source Voltage	±16	V
l _D	Drain Current-ContinuousTc=25℃ Tc=100℃	55 39	А
I _{DM}	Drain Current-Single Pulsed	190	А
P _D	Total Dissipation @T _C =25°C	200	W
T _{ch}	Max. Operating Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature	-55~175	°C

• THERMAL CHARACTERISTICS

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



	113 H2	A		F
		n	ım	
	DIM	MIN	MAX	1
	A	4.37	4.77	1
	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	1
	D	23.20	24.02	1
	D1	8.38	8.90	
	D2	6.00	-8	
	E	9.90	10.39	1
	E4	7.30	_	1
ļ	е	2.54BSC		1
ļ	G	1.25	1.50	↓
ļ	H2	- 31 	1.31	↓
	L	13.34	14.10	1
ļ	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	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	100			V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D =0.25mA	1.0		2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =29A			26	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±16V;V _{DS} =0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V;Tj=25°C V _{DS} =80V; V _{GS} = 0V;Tj=125°C			20 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =29A, V _{GS} = 0 V			1.3	V



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