

Isc N-Channel MOSFET Transistor

IRF8010L

• 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

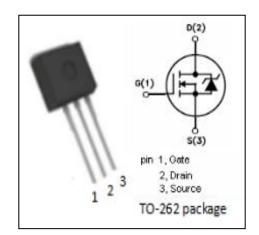


• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	100	V
V_{GSS}	Gate-Source Voltage	±20	V
l _D	Drain Current-ContinuousTc=25℃ Tc=100℃	80 57	А
Ірм	Drain Current-Single Pulsed	320	А
P_{D}	Total Dissipation @Tc=25°C	260	W
T _{ch}	Max. Operating Junction Temperature	175	°C
T _{stg}	Storage Temperature	-55~175	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.57	°C/W	



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D	10			£4 }
	20 2	-	nm]
	DIM	MIN	MAX	İ
	A	4.37	4.77	İ
	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	1
	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	
		0 00	1 00	I
	L1 L3	3.30 0.95	4.06 1.15	ł



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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	100			V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =45A		12	15	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = $\pm 20V$; V_{DS} = $0V$			±0.2	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V;Tj=25°C V _{DS} =100V; V _{GS} = 0V;Tj=125°C			20 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =80A, V _{GS} = 0 V			1.3	V

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