

Isc N-Channel MOSFET Transistor

IRFSL23N20D

• FEATURES

- · With TO-262 packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power supply
- Switching applications

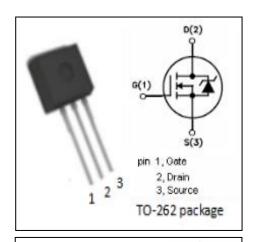


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	24	Α
P_D	Total Dissipation @T _C =25°C	3.8	W
Tj	Max. Operating Junction Temperature	-55~175	$^{\circ}$
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(j-c)	Channel-to-case thermal resistance	0.9	°C/W	



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	DIM	MIN	MAX	
İ	A	4.37	4.77	
Ī	A1	1.22	1.42	
Ī	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	(tem	1.31	
	L	13.34	14.10	
	145.775	112X 3X2X		
[L1	3.30	4.06	



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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 = 1mA	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = 250 μ A	3		5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 14A			100	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V; V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 200V; V _{GS} = 0V			25	μ А
V _{SD}	Diode forward voltage	I _S = 14A, V _{GS} = 0V			1.3	V



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