

Isc N-Channel MOSFET Transistor

IRFSL4710

D(2)

5(3)

pin 1, Oate

3

2 1

2, Drain

3, Source

• 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=25°C)

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)				TO-262 package			
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	100	V				
V _{GSS}	Gate-Source Voltage	±20	V				
Ι _D	Drain Current-ContinuousTc=25℃ Tc=100℃	75 53	A				
I _{DM}	Drain Current-Single Pulsed	300	A				
PD	Total Dissipation @T _C =25℃	200	W	A1 1.22 1.42 A2 2.47 2.87 b 0.70 0.97 b2 1.17 1.42			
T_{ch}	Max. Operating Junction Temperature	175	°C	- D2 6.00 -			
T _{stg}	Storage Temperature	-55~175	°C	E 9.90 10.39 E4 7.30 - e 2.54BSC G 1.25 1.50			
• THER	MAL CHARACTERISTICS	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
SYMBOL	PARAMETER	МАХ	UNIT	L3 0.95 1.15			
Rth(ch-c)	Channel-to-case thermal resistance	0.74	°C/W	-			

isc website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	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	3.5		5.5	v
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =45A		11	14	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =95V; V _{GS} = 0V;Tj=25℃ V _{DS} =80V; V _{GS} = 0V;Tj=150℃			1 250	μA
V _{SDF}	Diode forward voltage	I _{SD} =45A, V _{GS} = 0 V			1.3	V

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