

isc N-Channel MOSFET Transistor

IRLU3410

• FEATURES

- With TO-251(IPAK) packaging
- · High speed switching
- Easy to use
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



- Power supply
- · DC-DC converters
- Motor control
- · Switching applications





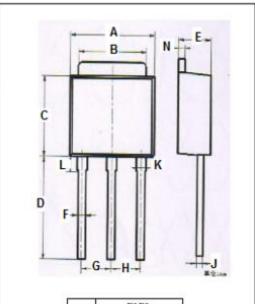




SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	100	V	
V _{GSS}	Gate-Source Voltage	±16	V	
I _D	Drain Current-Continuous	17	А	
I _{DM}	Drain Current-Single Pulsed	60	А	
P _D	Total Dissipation	79	W	
Tj	Operating Junction Temperature	-55~175	$^{\circ}\!\mathbb{C}$	
T _{stg}	Storage Temperature	-55~175	°C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.9	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	50	°C/W	



	mm			
DIM	MIN	MAX		
Α	6.40	6.48		
В	5.10	5.50		
C	5.80	6.20		
D	9.20	9.60		
E	2.20	2.40		
F	0.50	0.70		
G	2.09	2.49		
Н	2.09	2.49		
J	0.40	0.60		
K	0.70	0.90		
L	1.60	2.00		
N	0.40	0.60		

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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 =10A			105	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±16V;V _{DS} =0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 100V; V _{GS} = 0V;Tj=25°C V _{DS} = 80V; V _{GS} = 0V;Tj=150°C			20 250	μ A
V _{SDF}	Diode forward voltage	I _{SD} =9A, V _{GS} =0V			1.3	V



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