

isc N-Channel MOSFET Transistor

IRLB4030, IIRLB4030

• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤4.3mΩ
- Enhancement mode
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



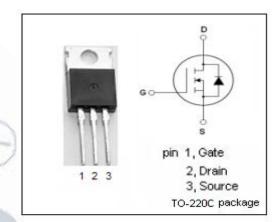
· reliable device for use in a wide variety of applications

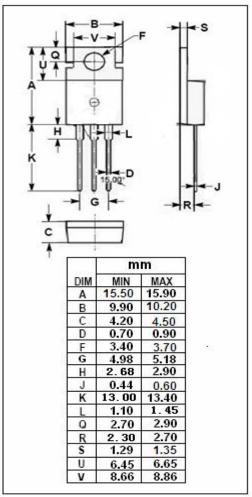
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	100	V	
V _{GS}	Gate-Source Voltage	±16	6 V	
I _D	Drain Current-Continuous	180	A	
I _{DM}	Drain Current-Single Pulsed	730		
P _D	Total Dissipation @T _C =25℃	370	W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.40	°C/W
Rth(ch-a)	n-a) Channel-to-ambient thermal resistance		°C/W







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =250 μ A	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	1.0		2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =110A			4.3	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±16V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			20	μА
V _{SD}	Diode forward voltage	Is=110A, V _{GS} = 0V			1.3	V

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