

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IRL2910, IIRL2910

FEATURES

- Static drain-source on-resistance: Ros(on) ≤0.026Ω
- Enhancement mode
- · Fast Switching Speed
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

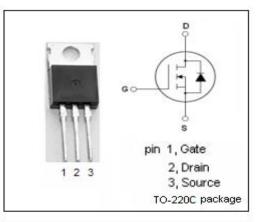
• reliable device for use in a wide variety of applications

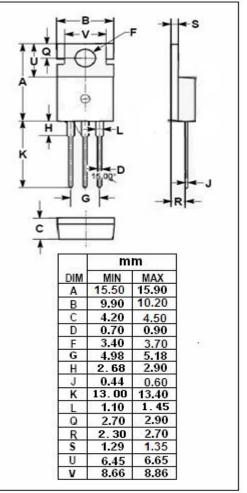
• ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	SYMBOL PARAMETER		UNIT			
V _{DSS}	Drain-Source Voltage	100	V			
V _{GS}	Gate-Source Voltage	±16	V			
ID	Drain Current-Continuous	55	А			
I _{DM}	Drain Current-Single Pulsed	190	А			
PD	Total Dissipation @T _c =25°C	n @T _c =25°C 200				
Tj	T _j Max. Operating Junction Temperature		°C			
T _{stg}	Storage Temperature	-55~175	°C			

ABSOLUTE MAXIMUM RATINGS(T_=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.75	°C/W
Rth(ch-a)	n(ch-a) Channel-to-ambient thermal resistance		°C/W







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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; ID =250 μ A	100			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	1.0		2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =29A			0.026	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±16V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			25	μA
V _{SD}	Diode forward voltage	Is=29A, V _{GS} = 0V			1.3	V

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