

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IRF2907Z, IIRF2907Z

• FEATURES

- Static drain-source on-resistance: RDs(on) ≤4.5mΩ
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

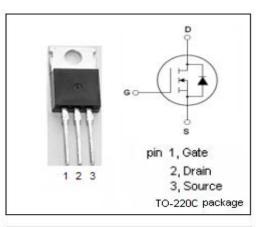
• reliable device for use in a wide variety of applications

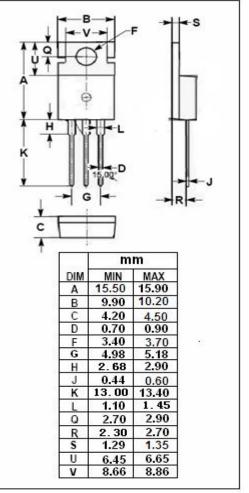
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	75	V			
V _{GS}	Gate-Source Voltage	±20	V			
ID	Drain Current-Continuous	75	А			
I _{DM}	Drain Current-Single Pulsed	680	A			
PD	Total Dissipation @T _c =25°C	330	W			
Tj	Max. Operating Junction Temperature 175		°C			
T _{stg}	Storage Temperature	-55~175	°C			

• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.45	°C /W
Rth(ch-a)	(ch-a) Channel-to-ambient thermal resistance		°C /W







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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =250 μ A	75			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =75A			4.5	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V			±0.2	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =75V; V _{GS} = 0V			20	μA
Vsd	Diode forward voltage	Is=75A, V _{GS} = 0 V			1.3	V

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