

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IRFB3307Z, IIRFB3307Z

• FEATURES

- Static drain-source on-resistance: R⊳s(on) ≤5.8mΩ
- 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

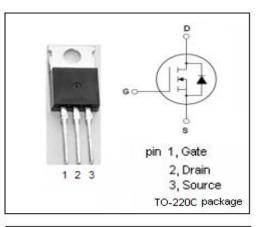
SYMBOL	PARAMETER	VALUE	UNIT			
VDSS	Drain-Source Voltage	75	V			
V _{GS}	Gate-Source Voltage	±20	V			
ID	Drain Current-Continuous	75	А			
I _{DM}	Drain Current-Single Pulsed	480	А			
PD	Total Dissipation @T _c =25°C	230	W			
Tj	Max. Operating Junction Temperature	175	°C			
T _{stg}	Storage Temperature	-55~175	°C			

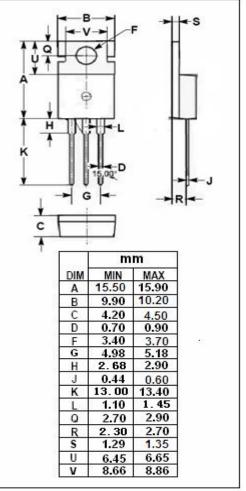
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.65	°C/W
Rth(ch-a) Channel-to-ambient thermal resistance		62	°C/W

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isc website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

 $T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

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 =150 μ A	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =75A			5.8	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =75V; V _{GS} = 0V			20	μA
V _{SD}	Diode forward voltage	Is=80A, V _{GS} = 0 V			1.3	V

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