

isc N-Channel MOSFET Transistor

IRFB3207ZG

FEATURES

- Drain Current : ID= 120A@ TC=25 $^{\circ}\mathrm{C}$
- Drain Source Voltage
 - : V_{DSS}= 75V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 4.1 \text{m} \Omega \text{ (Max)} @ V_{GS} = 10 \text{V}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



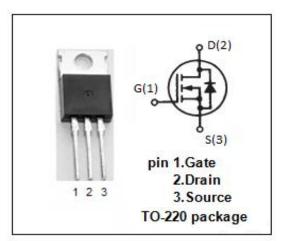
• reliable device for use in a wide variety of applications

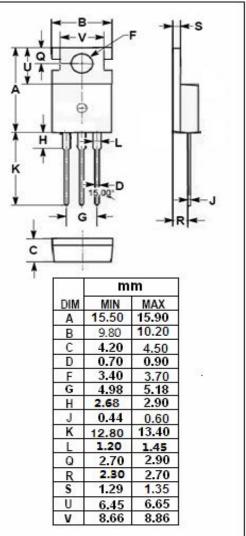
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	75	V
V _G s	Gate-Source Voltage ±20		V
lο	Drain Current-Continuous	120	А
I _{DM}	Drain Current-Single Pulsed	670	А
P _D	Total Dissipation @T _C =25℃ 300		W
Tj	Max. Operating Junction Temperature	175	${\mathbb C}$
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.5	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =250 μ A	75		٧
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =150 μ A	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =75A		4.1	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V		±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =75V; V _{GS} = 0V		20	μА
V _{SD}	Diode forward voltage	Is=75A, V _{GS} = 0V		1.3	V

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