

isc N-Channel MOSFET Transistor

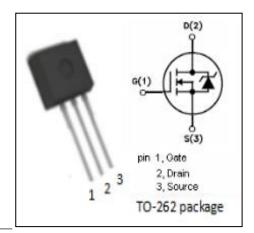
IRFB3607

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤9.0mΩ
- 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

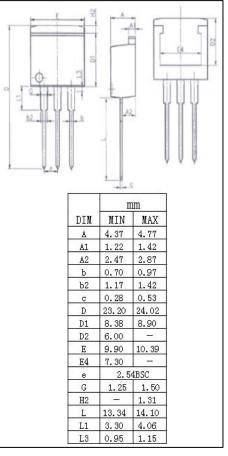


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	75	V
V_{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	80	А
I _{DM}	Drain Current-Single Pulsed	310	А
P_D	Total Dissipation @T _C =25°C	140	W
Тј	Max. Operating Junction Temperature	Operating Junction Temperature 175	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.045	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	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 =100 μ A	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =46A			9.0	m Ω
lgss	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=46A, V _{GS} = 0 V			1.3	V



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