

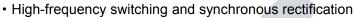
isc N-Channel MOSFET Transistor

IRFBE30PBF

FEATURES

- Static drain-source on-resistance: Ros(on) ≤3Ω
- · Fast Switching Speed
- · 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



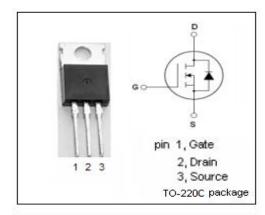


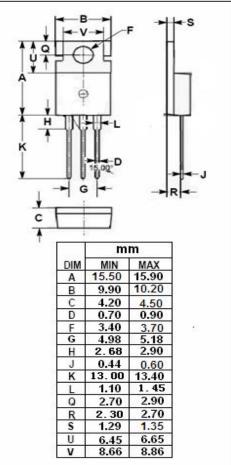
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	V	
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	4.1	А
I _{DM}	Drain Current-Single Pulsed 16		А
P _D	Total Dissipation @T _C =25°C 125		W
Tj	Max. Operating Junction Temperature 150		°C
T _{stg}	Storage Temperature -55~15		°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th(ch-c)}	Channel-to-case thermal resistance	1	°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; I _D =250 μ A	800			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =2.5A			3	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =800V; V _{GS} = 0V			100	μА
V _{SD}	Diode forward voltage	I _S =4.1A; V _{GS} = 0V			1.8	V



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