

isc N-Channel MOSFET Transistor

IRFB4620, IIRFB4620

• FEATURES

- Static drain-source on-resistance:
 R_Ds(on) ≤72.5mΩ
- · Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

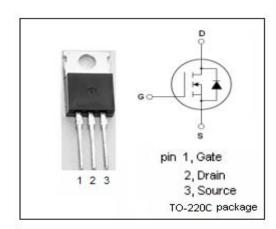
- High Efficiency Synchronous Rectification in SMPS
- Uninterruptible Power Supply

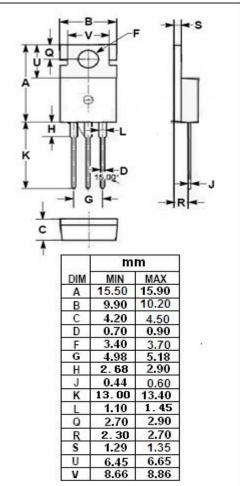
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	200	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	25	А	
I _{DM}	Drain Current-Single Pulsed	100	А	
P_D	Total Dissipation @T _C =25℃	144	W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$	
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			
Rth(ch-a)	Channel-to-ambient thermal resistance	62	°C/W			







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT		
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	200			V		
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =100 μ A	3		5	V		
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =15A			72.5	mΩ		
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.1	μА		
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V			20	μА		
V _{SD}	Diode forward voltage	Is=15A; V _{GS} = 0V			1.3	V		

NOTICE:

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