

isc N-Channel MOSFET Transistor

IRFB3306, IIRFB3306

FEATURES

- Static drain-source on-resistance:
 - R⊳s(on) ≤4.2mΩ
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

- · High efficiency synchronous rectification in SMPS
- Uninterrruptible power supply
- High speed power switching

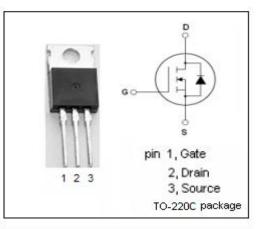
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

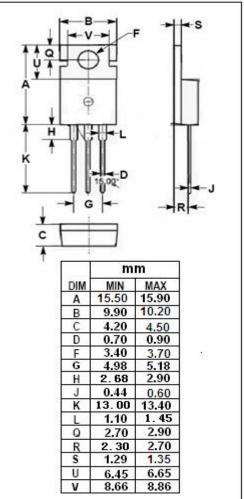
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	60	V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	110	А				
I _{DM}	Drain Current-Single Pulsed	620	А				
PD	Total Dissipation @T _c =25°C	230	W				
Tj	Max. Operating Junction Temperature 175		°C				
T _{stg}	Storage Temperature	-55~175	°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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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =250 μ A	60			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =150 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=75A			4.2	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0V			20	μA
V _{SD}	Diode forward voltage	I _S =75A; V _{GS} = 0V			1.3	V

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