

isc N-Channel MOSFET Transistor

IRFB3206,IIRFB3206

FEATURES

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

DESCRITION

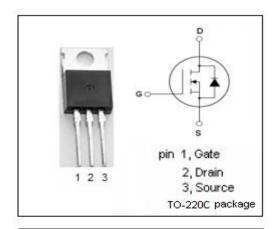
- High Efficiency Synchronous Rectification in SMPS
- Uninterruptible Power Supply
- Hard Switched and High Frequency Circuits

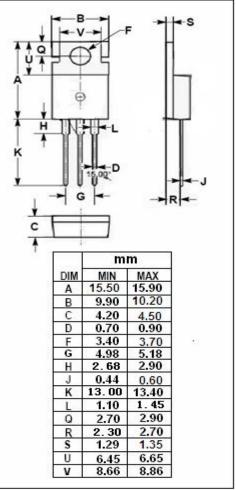
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	Α	
I _{DM}	Drain Current-Single Pulsed 840		Α
P _D	Total Dissipation @T _C =25°C 300		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	0.5	°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	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250μA	60			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =150 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =75A			3	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	μА
V _{SD}	Diode forward voltage	Is =75A, V _{GS} = 0 V			1.3	V

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