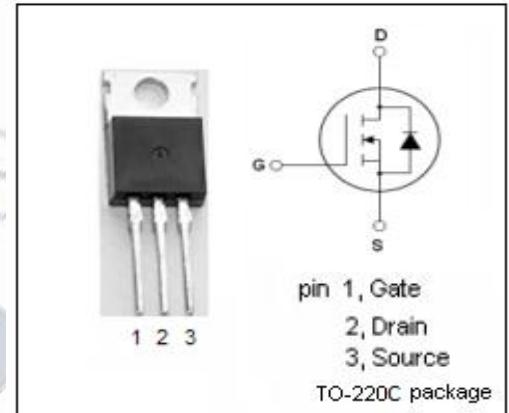


isc N-Channel MOSFET Transistor

IRFB3306, IIRFB3306

• FEATURES

- Static drain-source on-resistance: $R_{DS(on)} \leq 4.2\text{m}\Omega$
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

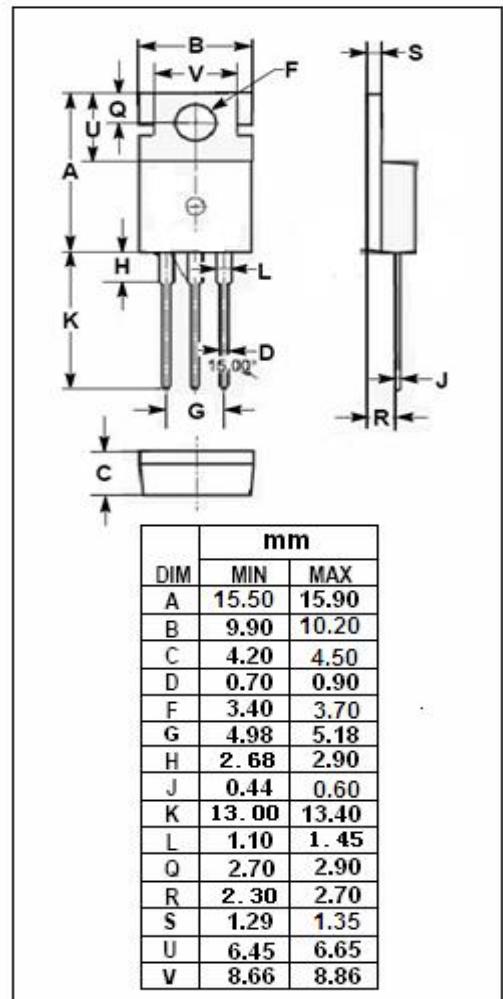


• DESCRIPTION

- High efficiency synchronous rectification in SMPS
- Uninterruptible power supply
- High speed power switching

• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	60	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	110	A
I_{DM}	Drain Current-Single Pulsed	620	A
P_D	Total Dissipation @ $T_c=25^\circ\text{C}$	230	W
T_j	Max. Operating Junction Temperature	175	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~175	$^\circ\text{C}$



• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	0.65	$^\circ\text{C/W}$
$R_{th(ch-a)}$	Channel-to-ambient thermal resistance	62	$^\circ\text{C/W}$

isc N-Channel MOSFET Transistor
IRFB3306, IIRFB3306
ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	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	μ A
V _{SD}	Diode forward voltage	I _S =75A; V _{GS} = 0V			1.3	V