

isc N-Channel MOSFET Transistor

IRFB4212, IIRFB4212

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

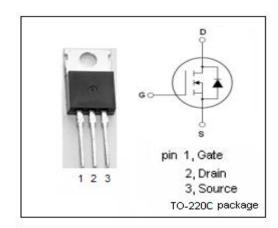
• reliable device for use in a wide variety of applications

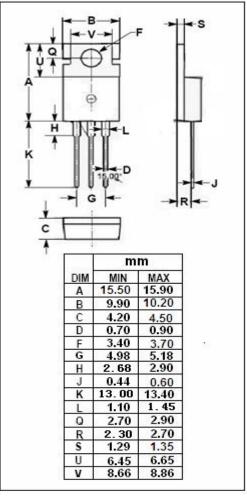
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

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SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	100	V				
V _{GS}	Gate-Source Voltage	±20	V				
I _D	Drain Current-Continuous	18	А				
I _{DM}	Drain Current-Single Pulsed	57	А				
P _D	Total Dissipation @T _C =25°C	60	W				
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C				
T _{stg}	Storage Temperature	-55~175	$^{\circ}$				

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.5	°C/W
Rth(ch-a)	Rth(ch-a) Channel-to-ambient thermal resistance		°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; ID =250 μ A	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	3.0		5.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	V _{GS} =10V; I _D =13A			72.5	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V			±0.2	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			20	μА
V_{SD}	Diode forward voltage	Is=13A, V _{GS} = 0V			1.3	V

NOTICE:

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