

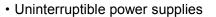
isc N-Channel MOSFET Transistor

IRFB812, IIRFB812

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤ 2.2Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION



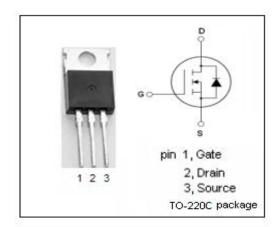
· Motor control applications

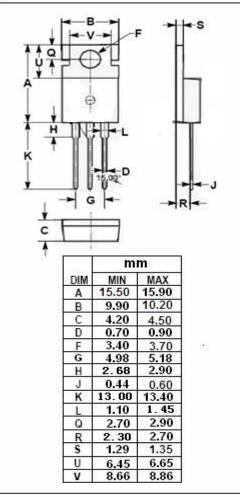


SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	500	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	А		
I _{DM}	Drain Current-Single Pulsed	ed 14.4		
P_D	Total Dissipation @T _C =25°C	78	W	
Tj	Max. Operating Junction Temperature 150		°C	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	2.5	°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	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =250 μ A	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =2.2A			2.2	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =500V; V _{GS} = 0V			25	μА
V _{SD}	Diode forward voltage	I _S =3.6A; V _{GS} =0V			1.2	V

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