

isc N-Channel MOSFET Transistor

IRFB4227, IIRFB4227

• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤24mΩ
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

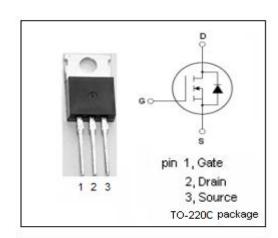
• 175℃ operating junction temperature and high repetitive peak current capability

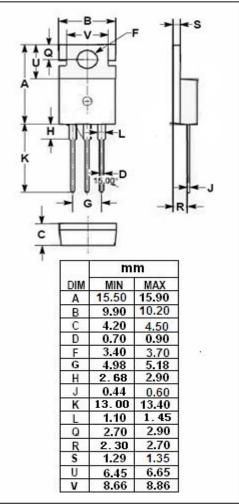
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	200	V	
V _{GS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	65	А	
I_{DM}	Drain Current-Single Pulsed	260	А	
P _D	Total Dissipation @T _c =25℃	330	W	
Tj	Max. Operating Junction Temperature	175	${\mathbb C}$	
T _{stg}	Storage Temperature	-40~175	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.45	°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	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =250 μ A	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =46A			24	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V			20	μА
V _{SD}	Diode forward voltage	Is=46A; V _{GS} = 0V			1.3	V

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