

Isc N-Channel MOSFET Transistor

IRFP4568PBF

FEATURES

- With TO-247packaging
- Uninterruptible power supply
- · High speed switching
- · Hard switched and high frequency circuits
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications

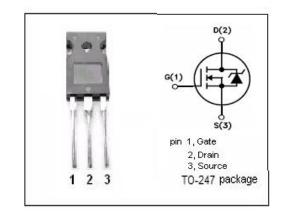


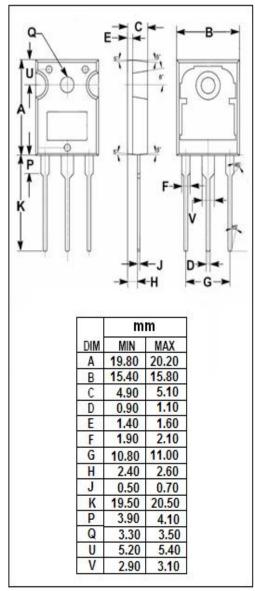
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	150	V	
V _{GSS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous@T _c =25℃ T _c =100℃	171 121	А	
I _{DM}	Drain Current-Single Pulsed	684	А	
P _D	Total Dissipation	517	W	
T _j	Operating Junction Temperature	-55~175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$ C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT			
Rth(ch-c)	Channel-to-case thermal resistance	0.29	°C/W			
Rth(ch-a)	Channel-to-ambient thermal resistance	40	°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 = 0.25mA	150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±20V; I _D =0.25mA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =103A		4.8	5.9	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 150V; V _{GS} = 0V@Tc=25℃ Tc=125℃			20 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =103A, V _{GS} = 0 V			1.3	V

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