

isc P-Channel MOSFET Transistor

IRF9530PBF

• FEATURES

- Static drain-source on-resistance: $\mathsf{R}_\mathsf{DS}(\mathsf{on}) \!\!\leqslant\! 0.3 \Omega$
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

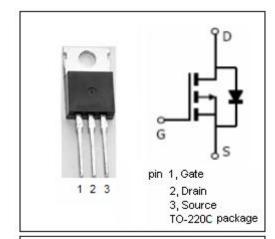
- · Power management in notebook computer
- · Portable equipment and battery powered systems

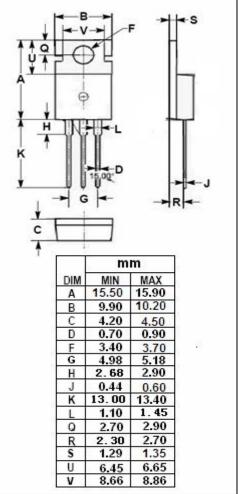
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABSOLUTE MAXIMUM NATINGS(1g=23 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	-100	V			
V _{GS}	Gate-Source Voltage	±20	V			
I _D	Drain Current-Continuous -12		Α			
I _{DM}	Drain Current-Single Pulsed	ain Current-Single Pulsed -48				
P _D	Total Dissipation @T _C =25°C	85	W			
Tj	Max. Operating Junction Temperature	Operating Junction Temperature 175				
T _{stg}	Storage Temperature	-55~175	$^{\circ}$ C			

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
Rth(j-c)	Channel-to-case thermal resistance	1.76	°C/W	
Rth(j-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	-100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = -250 μ A	-2		-4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D = -16A			0.3	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V			±10	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = -100V; V _{GS} = 0V			-1	μА
V _{SD}	Diode forward voltage	Is= -10A; V _{GS} = 0V			-1.2	V

NOTICE:

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