

iscN-Channel MOSFET Transistor

IRFP22N50A

• FEATURES

- Low drain-source on-resistance: R_{DS}(ON) =0.23Ω (MAX)
- Enhancement mode: Vth = 2.0 to 4.0V (Vps = 10 V, Ip=0.25mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

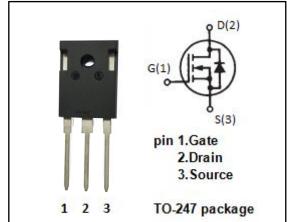
· Switching Voltage Regulators

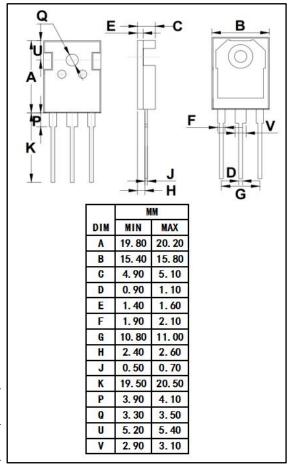
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	500	V
V _G s	Gate-Source Voltage	±30	V
l _D	Drain Current-Continuous	22	А
Ірм	Drain Current-Single Pulsed	88	Α
P _D	Total Dissipation @T _C =25°C	277	W
Tj	Max. Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.45	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =13A			0.23	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =500V; V _{GS} = 0V V _{DS} =400V; V _{GS} = 0V;T _J =125℃			25 250	uA
V _{SDF}	Diode forward voltage	I _{DR} =22A, V _{GS} = 0 V			1.5	V

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