

isc N-Channel MOSFET Transistor

PHP30NQ15T

FEATURES

- Static drain-source on-resistance: $\mathsf{RDs}(\mathsf{on}) \leq 63 \mathsf{m} \Omega$
- Low thermal resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



- DC/DC Converter
- Ideal for high-frequency switching and synchronous rectification

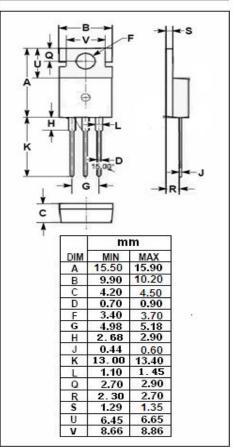
pin 1, Gate 2, Drain 3, Source TO-220C package

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	29	А
I _{DM}	Drain Current-Single Pulsed	116	А
P _D	Total Dissipation @T _C =25℃	150	W
Tj	Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	$^{\circ}\!\mathbb{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	1	°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; ID = 250 μ A	150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; ID = 1mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 40A			63	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±10V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 150V; V _{GS} = 0V			10	μА
Vsp	Diode forward voltage	I _S = 25A; V _{GS} = 0V			1.2	V



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