

isc N-Channel MOSFET Transistor

PSMN1R6-30PL

D(2)

FEATURES

- Drain Current –I_D= 100A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage-: V_{DSS}= 30V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ = 1.7m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

SYMBOL

Rth j-c

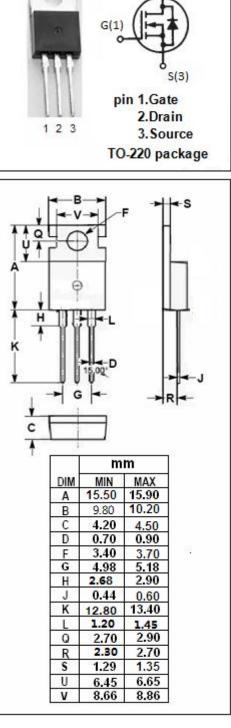
• Designed for use in switch mode power supplies and general purpose applications.

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	30	V
V_{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	100	А
I _{DM}	Drain Current-Single Pluse	1268	А
P _D	Total Dissipation @T _c =25℃	306	w
TJ	Max. Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C
THERMA			

PARAMETER

Thermal Resistance, Junction to Case

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



isc website: www.iscsemi.com

¹ *isc & iscsemi* is registered trademark

MAX

0.49

UNIT

°C/W



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^\circ\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	30		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	1.3	2.15	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 25A		1.7	mΩ
lgss	Gate-Body Leakage Current	V _{GS} = ±16V;V _{DS} = 0		±100	nA
ldss	Zero Gate Voltage Drain Current	V _{DS} = 30V; V _{GS} = 0		5.0	μA
V _{SD}	Forward On-Voltage	I _S = 25A; V _{GS} = 0		1.2	V

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