

isc N-Channel MOSFET Transistor

PSMN2R6-60PS

FEATURES

- Drain Current –I_D= 150A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 2.6m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

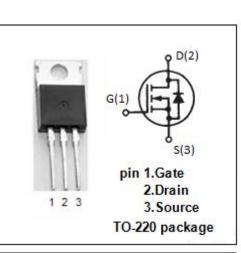
• Designed for use in switch mode power supplies and general purpose applications.

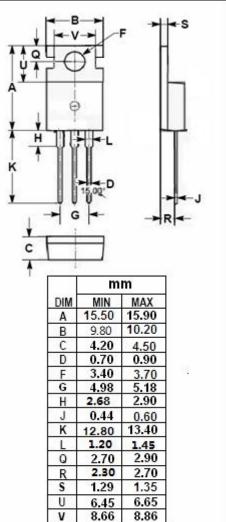
ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	60	v			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous	150	A			
I _{DM}	Drain Current-Single Pluse	961	A			
P _D	Total Dissipation @Tc=25℃	326	w			
TJ	Max. Operating Junction Temperature	Temperature -55~175				
T _{stg}	Storage Temperature	-55~175	°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.46	°C/W







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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	60		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	2.4	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 25A		2.6	mΩ
Igss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
loss	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		1.0	μA
V _{SD}	Forward On-Voltage	I _S = 25A; V _{GS} = 0		1.2	V

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