

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPP600N25N3, IIPP600N25N3

FEATURES

- Static drain-source on-resistance: RDs(on) ≤60mΩ
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

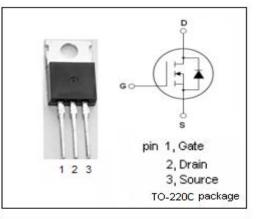
• Ideal for high-frequency switching and synchronous rectification

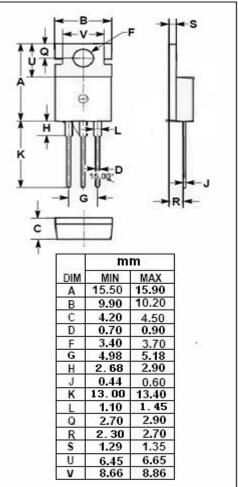
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	250	V				
V _{GS}	Gate-Source Voltage	V					
ID	Drain Current-Continuous	А					
I _{DM}	Drain Current-Single Pulsed	100	А				
PD	Total Dissipation @Tc=25°C	136	w				
Tj	Max. Operating Junction Temperature 175		°C				
T _{stg}	Storage Temperature	-55~175	°C				

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.1	°C /W
Rth(ch-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	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	250			v
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =90 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =25A			60	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =200V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =25A; V _{GS} = 0V			1.2	V

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