

isc N-Channel MOSFET Transistor IPP114N12N3, IIPP114N12N3

• FEATURES

- Static drain-source on-resistance: R_Ds(on) ≤11.4mΩ
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

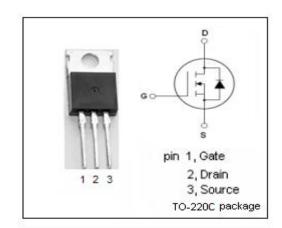
· Ideal for high-frequency switching and synchronous rectification

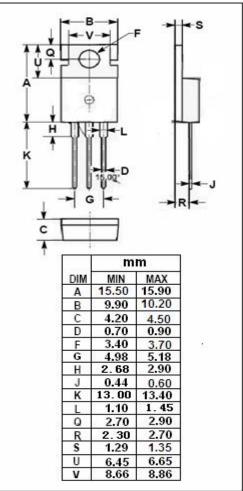
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{ extsf{DSS}}$	Drain-Source Voltage	120	V
V _{GS}	Gate-Source Voltage ±2		V
I _D	Drain Current-Continuous	75	А
I _{DM}	Drain Current-Single Pulsed 300		А
P _D	Total Dissipation @Tc=25℃ 136		W
Tj	Max. Operating Junction Temperature 175		$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature -55~1		${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	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	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =1mA	120			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =83 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =75A			11.4	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} =0V			0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =75A; V _{GS} = 0V			1.2	V

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