

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPP04CN10N, IIPP04CN10N

• FEATURES

- Static drain-source on-resistance: RDs(on) ≤3.9mΩ
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

• reliable device for use in a wide variety of applications

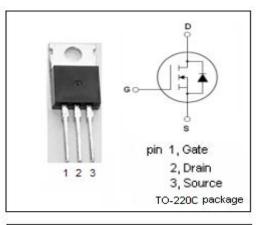
SYMBOL	PARAMETER	VALUE	UNIT				
VDSS	Drain-Source Voltage	100	V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	100	A				
I _{DM}	Drain Current-Single Pulsed	400	A				
PD	Total Dissipation @T _c =25°C	T _C =25℃ 300					
Tj	Max. Operating Junction Temperature	175	°C				
T _{stg}	Storage Temperature	-55~175	°C				

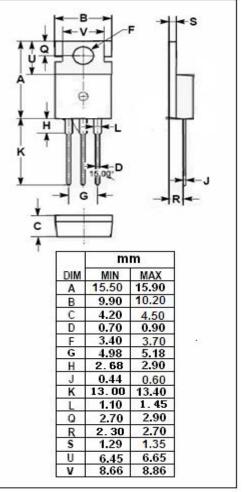
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.5	°C/W
Rth(ch-a)	th(ch-a) Channel-to-ambient thermal resistance		°C/W

1





isc website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =1mA	100			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =100A			4.2	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; VDS=0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =80V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	IF=100A, V _{GS} = 0V			1.2	V

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