

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPA030N10N3,IIPA030N10N3

FEATURES

- Low drain-source on-resistance: RDs(on) ≤ 3mΩ (max)
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

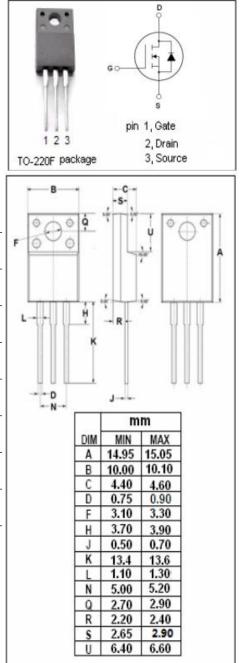
· Device for use in a wide variety of applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABSOLUTE MAXIMUM RATINGS(Ta=23 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	100	V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	79	А				
I _{DM}	Drain Current-Single Pulsed	316	А				
PD	Total Dissipation @Tc=25°C	41	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	3.7	°C/W	





isc N-Channel MOSFET Transistor IPA030N1

IPA030N10N3,IIPA030N10N3

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	100			V
V _{GS} (th)	Gate Threshold Voltage	V_{DS} = V_{GS} ; I _D =0.27mA	2.0		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =79A			3	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} = 0V			100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _{DR} =79A, V _{GS} = 0 V			1.2	V



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