

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPU135N03L

• FEATURES

- With TO-251(IPAK) packaging
- High speed switching
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

APPLICATIONS

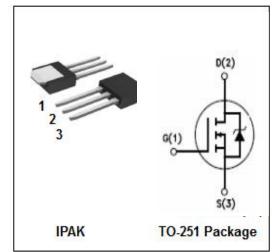
- Power supply
- DC-DC converters
- Motor control
- Switching applications

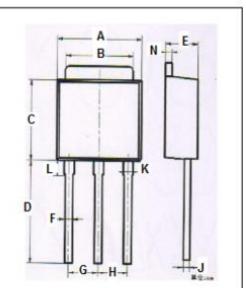
ABSOLUTE MAXIMUM RATINGS(Ta=25 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	30	V				
V _{GSS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	30	A				
I _{DM}	Drain Current-Single Pulsed	210	А				
PD	Total Dissipation	31	W				
Tj	Operating Junction Temperature	-55~175	°C				
T _{stg}	Storage Temperature	-55~175	°C				

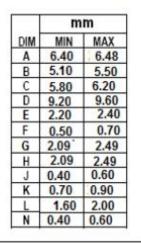
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	4.9	°C /W	
Rth(ch-a)	Channel-to-ambient thermal resistance	50	°C/W	

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isc website: www.iscsemi.cn

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1.0mA	30			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	1.0		2.2	v
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =30A		11.3	13.5	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 30V; V _{GS} = 0V;Tj=25℃ V _{DS} = 30V; V _{GS} = 0V;Tj=125℃			1 100	μA
V _{SDF}	Diode forward voltage	I _{SD} =30A, V _{GS} = 0 V			1.2	V



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