

isc N-Channel MOSFET Transistor

INCHANGE SEMICONDUCTOR

IPB029N06N3G

https://www.alldatasheet.com/

FEATURES

- Drain Current : I_D= 120A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage
- : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 2.9m Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

• motor drive, DC-DC converter, power switch and solenoid drive.

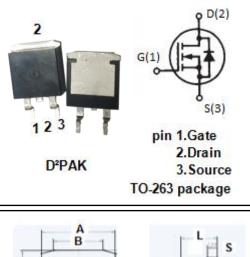
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	V	
V_{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	120	A
Ідм	Drain Current-Single Pluse	400	A
P _D	Total Dissipation @T _c =25 [°] C 188		W
TJ	Max. Operating Junction Temperature -55~175		°C
T _{stg}	Storage Temperature -55~175		°C

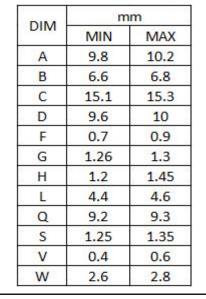
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.8	°C /W

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	60		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.118mA	2	4	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 100A		2.9	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		2	uA
V _{SD}	Forward On-Voltage	I _S = 100A; V _{GS} = 0		1.2	V

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