

isc N-Channel MOSFET Transistor

NDB706B

FEATURES

- ·Drain Current -I_D= 70A@ T_C=25 ℃
- ·Drain Source Voltage -V_{DSS}= 60V(Min)
- ·Static Drain-Source On-Resistance
- $-R_{DS(on)} = 23m\Omega(Max)@V_{GS} = 10V$



DESCRIPTION

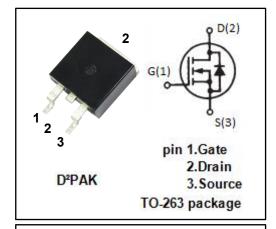
 Motor drive, DC-DC converter, power switch and solenoid drive.

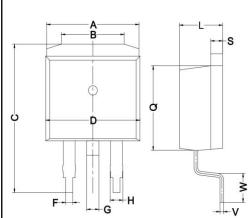
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	70	А
І _{ОМ}	Drain Current-Single Pluse	210	А
P _D	Total Dissipation @T _C =25℃	150	W
TJ	Max. Operating Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.0	°C/W





DIM	mm		
	MIN	TYP.	MAX
Α	9.80	10.00	10.20
В	6.60	6.70	6.80
C	15.10	15.20	15.30
D	9.60	9.80	10.00
F	0.70	0.80	0.90
G	1.26	1.28	1.30
Н	1.20	1.33	1.45
L	4.40	4.50	4.60
Q	9.20	9.25	9.30
S	1.25	1.30	1.35
٧	0.40	0.50	0.60
W	2.60	2.70	2.80



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ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	60		V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		250	uA
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 35A		23	m Ω
V _{SD}	Forward On-Voltage	I _S = 35A; V _{GS} = 0		1.3	V

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