

isc N-Channel MOSFET Transistor

NDD03N40Z

FEATURES

- ·Drain Current -I_D= 2.4A@ T_C=25 °C
- ·Drain Source Voltage -V_{DSS}= 400V(Min)
- ·Static Drain-Source On-Resistance
- $-R_{DS(on)} = 3.4\Omega(Max)@V_{GS} = 10V$



DESCRIPTION

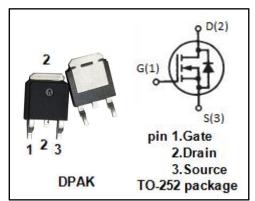
 Motor drive, DC-DC converter, power switch and solenoid drive.

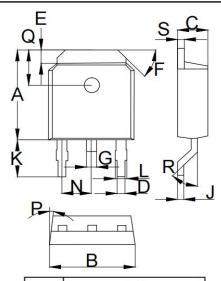
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	400	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	2.1	А
І _{ОМ}	Drain Current-Single Pluse	8	А
P _D	Total Dissipation @T _C =25℃	37	W
TJ	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.38	°C/W





DIM		mm	XX III	
	MIN	TYP.	MAX	
Α	6.90	7.10	7.30	
В	6.50	6.60	6.70	
C	2.20	2.30	2.40	
D	0.50	0.60	0.72	
E	0.90	1.00	1.10	
F	45°			
G	0.70	0.80	0.90	
J	0.40	0.50	0.60	
K	2.85	3.15	3.50	
L	0.70	0.80	0.90	
N	2.20	2.28	2.35	
Р	7°			
Q	2.75	2.80	2.85	
R	50°			
S	0.40	0.50	0.60	



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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 = 1mA	400		V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 400V; V _{GS} = 0		1	uA
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±10	uA
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.05mA	3.0	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 0.6A		3.4	Ω
V _{SD}	Forward On-Voltage	I _S = 0.5A; V _{GS} = 0		1.5	V

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