

isc N-Channel MOSFET Transistor

NDF03N60Z

FEATURES

- ·Drain Current -I_D= 3.1A@ T_C=25 $^\circ\!\mathrm{C}$
- ·Drain Source Voltage -V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance

 $-R_{DS(on)} = 3.6\Omega(Max)@V_{GS} = 10V$

DESCRIPTION

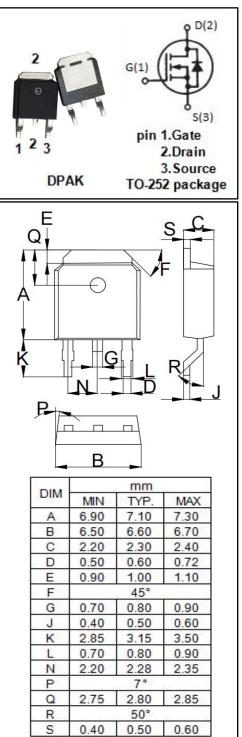
 Motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
ID	Drain Current-Continuous	3.1	A
I _{DM}	Drain Current-Single Pluse	12	A
P _D	Total Dissipation @T _c =25℃	27	W
TJ	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	4.63	°C /W





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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	600		V			
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; 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			
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1.2A		3.6	Ω			
V _{SD}	Forward On-Voltage	I _S = 3.0A; V _{GS} = 0		1.6	V			

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

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