

isc N-Channel MOSFET Transistor

NDF04N62Z

FEATURES

·Drain Current -I_D= 4.4A@ T_C=25 $^\circ\!\mathrm{C}$

- ·Drain Source Voltage -V_{DSS}= 620V(Min)
- ·Static Drain-Source On-Resistance

 $-R_{DS(on)} = 2.0\Omega(Max)@V_{GS} = 10V$

DESCRIPTION

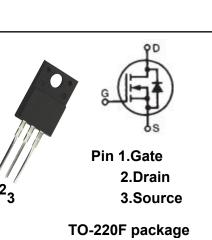
• Motor drive, DC-DC converter, power switch and solenoid drive.

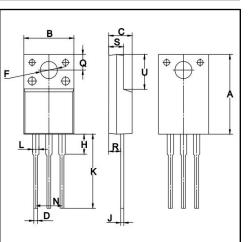
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	620	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
ID	Drain Current-Continuous	4.4	A
IDM	Drain Current-Single Pluse	18	A
P _D	Total Dissipation @T _C =25℃	28	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	4.46	°C/W





DIM	mm			
DIM	MIN	TYP.	MAX	
A	14.95	15.00	15.05	
В	10.00	10.05	10.10	
С	4.40	4.50	4.60	
D	0.75	0.83	0.90	
F	3.10	3.20	3.30	
Н	3.70	3.80	3.90	
J	0.50	0.60	0.70	
К	13.40	13.50	13.60	
L	1.10	1.20	1.30	
Ν	5.00	5.10	5.20	
Q	2.70	2.80	2.90	
R	2.20	2.30	2.40	
S	2.65	2.78	2.90	
U	6.40	6.50	6.60	



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ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)							
SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT		
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	620		V		
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 620V; 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 = 2.0A		2.0	Ω		
V _{SD}	Forward On-Voltage	I _S = 4.0A; V _{GS} = 0		1.6	V		

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

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