

isc N-Channel MOSFET Transistor

NDDP010N25AZ

FEATURES

- ·Drain Current -I_D= 10A@ T_C=25℃
- ·Drain Source Voltage -V_{DSS}= 250V(Min)
- ·Static Drain-Source On-Resistance
- - $R_{DS(on)}$ = 0.42m Ω (Max)@ V_{GS} = 10V



DESCRIPTION

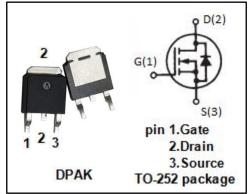
 Motor drive, DC-DC converter, power switch and solenoid drive.

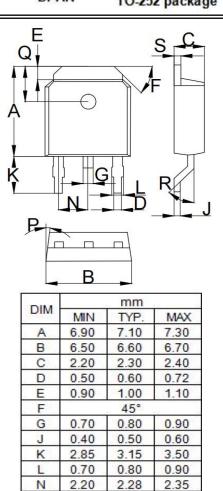
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	250	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	10	А
Ірм	Drain Current-Single Pluse	40	А
P _D	Total Dissipation @T _C =25℃	52	W
TJ	Max. Operating Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.4	°C/W





7°

2.80

50°

0.50

2.85

0.60

P

Q R

S

2.75

0.40



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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	250		V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 250V; V _{GS} = 0		1	uA
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±24V;V _{DS} = 0		±10	uA
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	2.5	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5A		0.42	mΩ
V _{SD}	Forward On-Voltage	I _S = 10A; V _{GS} = 0		1.2	V

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