

isc N-Channel MOSFET Transistor

NDD60N900U1

FEATURES

- ·Drain Current -I_D= 5.7A@ T_C=25 $^\circ\!\mathrm{C}$
- ·Drain Source Voltage -V_{DSS}= 600V(Min)
- ·Static Drain-Source On-Resistance

-R_{DS(on)} = 0.9Ω(Max)@V_{GS}= 10V

DESCRIPTION

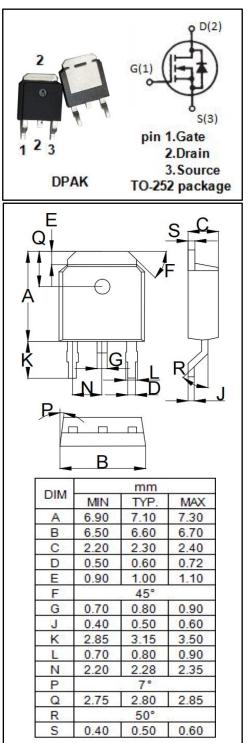
 Motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous	±25	V
ID	Drain Current-Continuous	5.7	A
I _{DM}	Drain Current-Single Pluse	20	A
P _D	Total Dissipation @T _C =25℃	74	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	1.69	°C /W





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ELECTRIC	LECTRICAL 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		±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 = 2.5A		0.9	Ω			
V _{SD}	Forward On-Voltage	I _S = 5.7A; V _{GS} = 0		1.3	V			

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

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