

isc N-Channel MOSFET Transistor

WPH4003-1E

FEATURES

• Drain Current : I_D= 3A@ T_C=25℃

• Drain Source Voltage

: V_{DSS}= 1700V(Min)

• Static Drain-Source On-Resistance

: $R_{DS}(on) = 10.5 \Omega (Max) @ V_{GS} = 10V$

DESCRIPTION

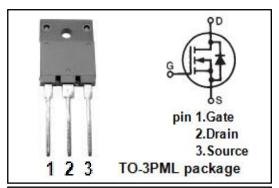
- · motor drive,
- DC-DC converter,
- power switch and solenoid drive.

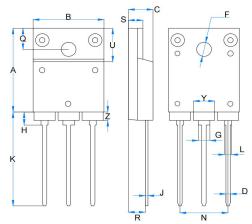
ABSOLUTE MAXIMUM RATINGS(Tc=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{ extsf{DSS}}$	Drain-Source Voltage	1700	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
ID	Drain Current-Continuous	3	А
I _{DM}	Drain Current-Single Pluse	12	А
P _D	Total Dissipation @T _C =25℃	83	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.5	°C/W





DIM		mm	
	MIN	TYP.	MAX
Α	19.90	20.00	20.10
В	15.90	16.00	16.10
С	5.50	5.60	5.70
D	0.90	1.00	1.10
F	3.30	3.40	3.50
G	2.90	3.00	3.10
Н	5.90	6.00	6.10
J	0.50	0.60	0.70
K	22.30	22.40	22.50
L	1.90	2.00	2.10
N	10.80	10.90	11.00
Q	4.90	5.00	5.10
R	3.75	3.85	3.95
S	3.20	3.30	3.40
U	7.90	8.00	8.10
Y	4.70	4.80	4.90
Z	1.90	2.00	2.10



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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 = 10mA	1700		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1.5A		10.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0		10	uA
V _{SD}	Forward On-Voltage	I _S = 47A; V _{GS} = 0	-	1.4	V

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