

isc N-Channel MOSFET Transistor

PHB55N03LT

FEATURES

- ·Drain Current -I_D= 55A@ T_C=25℃
- ·Drain Source Voltage -V_{DSS}= 25V(Min)
- ·Static Drain-Source On-Resistance
- -R_{DS(on)} = $14m\Omega(Max)@V_{GS}$ = 10V

DESCRIPTION

- DC-to-DC Converter
- General Industrial Applications
- Power Motor Control

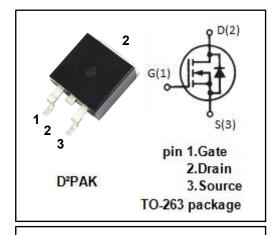


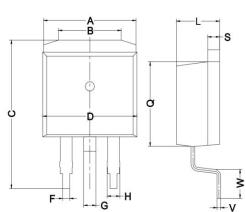
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	25	V
V _{GS}	Gate-Source Voltage-Continuous	±15	V
ID	Drain Current-Continuous	55	А
I _{DM}	Drain Current-Single Pulse	220	А
P _D	Total Dissipation @T _C =25℃	103	W
TJ	Max. Operating Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.46	°C/W





DIM	mm			
	MIN	TYP.	MAX	
Α	9.80	10.00	10.20	
В	6.60	6.70	6.80	
C	15.10	15.20	15.30	
D	9.60	9.80	10.00	
F	0.70	0.80	0.90	
G	1.26	1.28	1.30	
Н	1.20	1.33	1.45	
L	4.40	4.50	4.60	
Q	9.20	9.25	9.30	
S	1.25	1.30	1.35	
V	0.40	0.50	0.60	
W	2.60	2.70	2.80	



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ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	25		V
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 25V; V _{GS} = 0	1	10	uA
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±10V;V _{DS} = 0	-	±100	nA
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	1.0	2.0	٧
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 27A		14	m Ω
V _{SD}	Forward On-Voltage	I _S = 27A; V _{GS} = 0		1.2	V

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