

Isc N-Channel MOSFET Transistor

PHD44N06LT

• FEATURES

- · With To-252(DPAK) package
- · Low input capacitance and gate charge
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

Switching applications

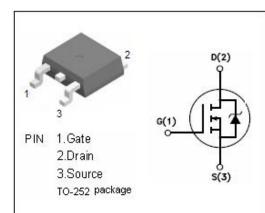


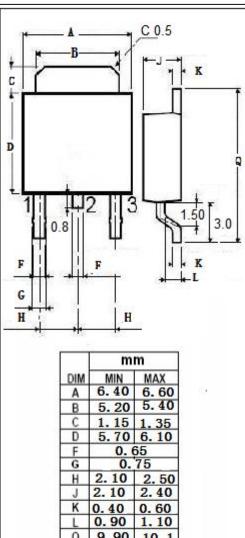
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	55	V	
V _{GSS}	Gate-Source Voltage	±13	V	
I _D	Drain Current-Continuous@Tc=25℃ Tc=100℃	44 31	А	
I _{DM}	Drain Current-Single Pulsed	176	А	
P _D	Total Dissipation @Tc=25℃	114	W	
T_ch	Max. Operating Junction Temperature	175	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	



SYMBOL	PARAMETER		UNIT		
Rth(ch-c)	Channel-to-case thermal resistance 55		°C/W		
Rth(ch-a)	h-a) Channel-to-ambient thermal resistance		°C/W		





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	55			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =5V; I _D =1.0mA	1.0		2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =20A		20	26	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±5V;V _{DS} = 0V			1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =55V; V _{GS} = 0V			10	μА
V _{SDF}	Diode forward voltage	I _{SD} =25A, V _{GS} = 0 V			1.2	V



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