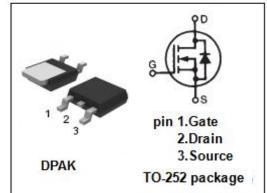


isc N-Channel MOSFET Transistor

DMNH3010LK3

FEATURES

- Drain Current –I_D= 55A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 30V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 9.5 \text{m} \Omega \text{ (Max)}$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

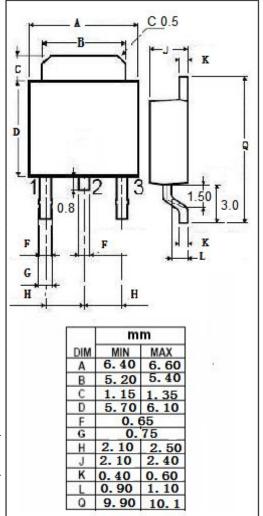
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABOOLOTE MAXIMOM TATITOS(Ta 200)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	30	V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
I _D	Drain Current-Continuous	55	Α			
I _{DM}	Drain Current-Single Pluse	100	А			
P _D	Total Dissipation @T _C =25℃	60	W			
TJ	Max. Operating Junction Temperature -55~17		$^{\circ}$			
T _{stg}	Storage Temperature	-55~175	$^{\circ}$			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	30		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	1.0	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 18A		9.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 30V; V _{GS} = 0		1.0	μА
V _{SD}	Forward On-Voltage	I _S = 1.0A; V _{GS} = 0		1.0	V

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