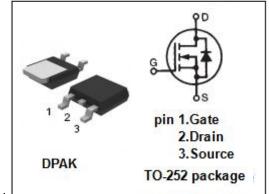


isc N-Channel MOSFET Transistor

DMNH6011LK3

FEATURES

- Drain Current –I_D= 80A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 55V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 12m \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

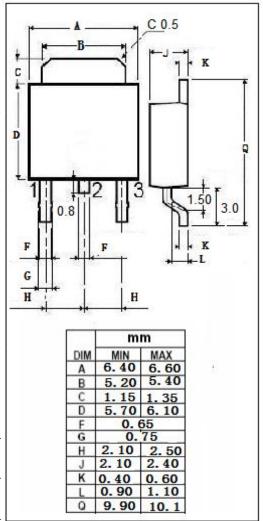
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABSSESTE IIIAMINSIII TATIINSS(Ta 200)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	55	V			
V _{GS}	Gate-Source Voltage-Continuous	±12	V			
Ι _D	Drain Current-Continuous	80	Α			
I _{DM}	Drain Current-Single Pluse	180	Α			
P _D	Total Dissipation @T _C =25℃	n @T₀=25℃ 50				
TJ	Max. Operating Junction Temperature	-55~175	$^{\circ}$			
T _{stg}	Storage Temperature	-55~175	℃			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.0	°C/W





isc N-Channel MOSFET Transistor

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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	55		V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.25mA	1.0	2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 25A		12	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±12V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 55V; V _{GS} = 0		1.0	μ А
V _{SD}	Forward On-Voltage	I _S = 1.7A; V _{GS} = 0		1.2	V

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