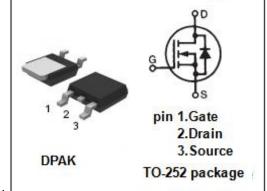


isc N-Channel MOSFET Transistor

DMN3010LK3

FEATURES

- Drain Current –I_D= 43A@ 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

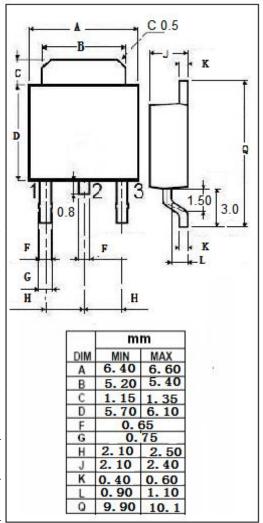
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

1 = 2 = 2 = 1 = 1 = 1 = 1 = 1 = 2 = 3 1 = 2 = 3						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	30	V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
I _D	Drain Current-Continuous 43		А			
I _{DM}	Drain Current-Single Pluse	90	А			
P _D	Total Dissipation @T _C =25℃	27	W			
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$			
T _{stg}	Storage Temperature	-55~150	$^{\circ}$			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	4.7	°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	30		V
$V_{\text{GS(th)}}$	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
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 30V; V _{GS} = 0		1.0	μА
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1.0	V

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