

# isc N-Channel MOSFET Transistor

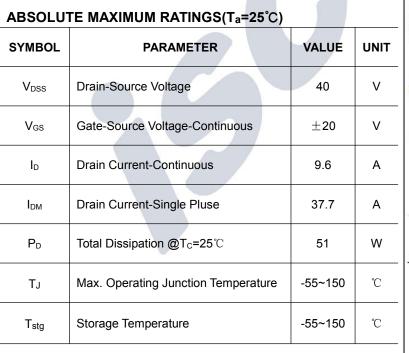
### DMN4030LK3

### FEATURES

- Drain Current –I\_D= 9.6A@ T\_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V<sub>DSS</sub>= 40V(Min)
- Static Drain-Source On-Resistance
- : R<sub>DS(on)</sub> = 30m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

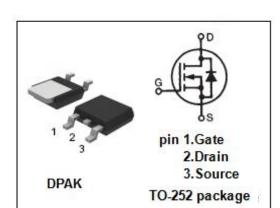
#### DESCRIPTION

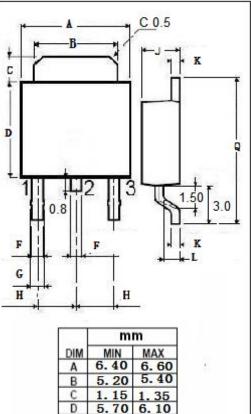
• Designed for use in switch mode power supplies and general purpose applications.



#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	2.46	°C/W





0 65

50

2.40

0

10

40

0.90

2.10

### <sup>1</sup> *isc & iscsemi* is registered trademark

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# DMN4030LK3

### **ELECTRICAL CHARACTERISTICS**

#### $T_{\text{C}}\text{=}25\,^\circ\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> = 0; I <sub>D</sub> = 0.25mA	40		V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; I <sub>D</sub> = 0.25mA	1.0	3.0	V
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> = 12A		30	mΩ
lgss	Gate-Body Leakage Current	V <sub>GS</sub> = ±20V;V <sub>DS</sub> = 0		±100	nA
ldss	Zero Gate Voltage Drain Current	V <sub>DS</sub> = 40V; V <sub>GS</sub> = 0		1.0	μA
V <sub>SD</sub>	Forward On-Voltage	I <sub>S</sub> = 12A; V <sub>GS</sub> = 0		1.1	V

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