

isc N-Channel MOSFET Transistor

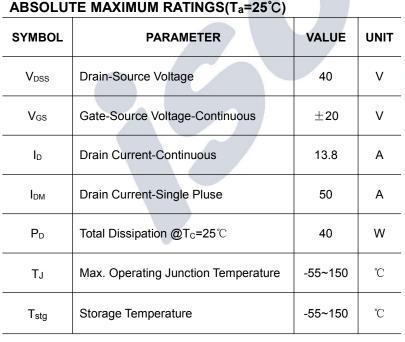
DMN4040SK3

FEATURES

- Drain Current –I_D= 13.8A@ T_C=25℃
- · Drain Source Voltage-: V_{DSS}= 40V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 30m \Omega$ (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.



PARAMETER

Thermal Resistance, Junction to Case

MAX

3.1

UNIT

°C/W

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

isc website: <u>www.iscsemi.com</u>

THERMAL CHARACTERISTICS

SYMBOL

R_{th j-c}

0

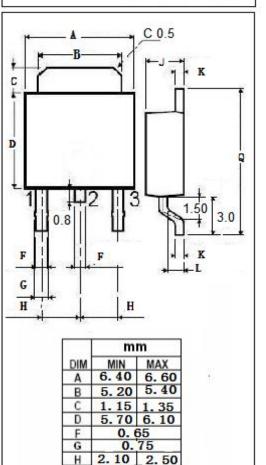
2 10

40 0 90 0

9.90

2. 40

pin 1.Gate 2.Drain 3. Source DPAK TO-252 package





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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	40		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	1.8	3.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 12A		30	mΩ
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 40V; V _{GS} = 0		1.0	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1.0	V

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