

isc N-Channel MOSFET Transistor

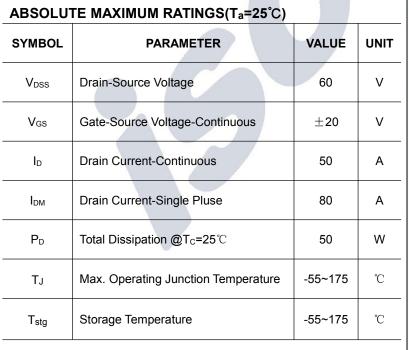
DMNH6021SK3

FEATURES

- Drain Current –I_D= 50A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 23m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

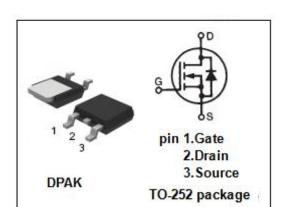
DESCRIPTION

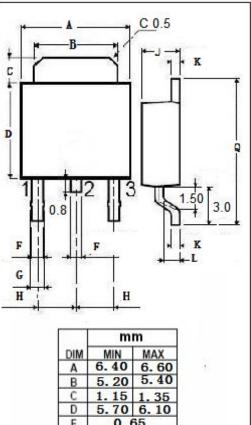
• Designed for use in switch mode power supplies and general purpose applications.



THERMAL CHARACTERISTICS

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





isc website: www.iscsemi.com

G

0

10

40

0.90

2.10

50

2.40

0



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	60		V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.25mA	1.0	3.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 12A		23	mΩ
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
Idss	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		1.0	μA
V _{SD}	Forward On-Voltage	I _S = 20A; V _{GS} = 0		1.2	V

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