

isc N-Channel MOSFET Transistor

DKG1020

FEATURES

- Drain Current −I_D=70A@ T_C=25°C
- · Drain Source Voltage-: V_{DSS}=40V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 6m \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

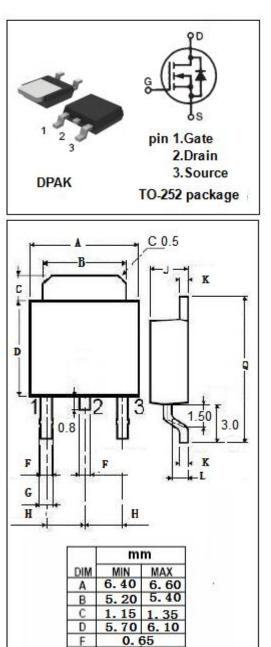
• Designed for use in switch mode power supplies and general purpose applications.

ADSOLUTE WAATWOW RATINGS(Ta-25 C)							
SYMBOL	PARAMETER VALUE		UNIT				
V _{DSS}	Drain-Source Voltage 100		V				
V _{GS}	Gate-Source Voltage-Continuous ±20		V				
ID	Drain Current-Continuous 20		A				
PD	Total Dissipation @T _c =25℃	on @T _c =25°C 40					
TJ	Max. Operating Junction Temperature	150	°C				
T _{stg}	Storage Temperature	-55~150	°C				

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.125	°C/W



¹ *isc & iscsemi* is registered trademark

G

Н

K

Q

0. 75

2.50

2.40

0.60

1, 10

10.

2.10

2.10

0.40

0.90

9.90

isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.1mA	100		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	1.5	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 10A		52	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =100V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S =20A; V _{GS} = 0		1.2	V

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