

isc N-Channel MOSFET Transistor

DKI06108

FEATURES

- Drain Current –I_D=47A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=60V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 9.7 m \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

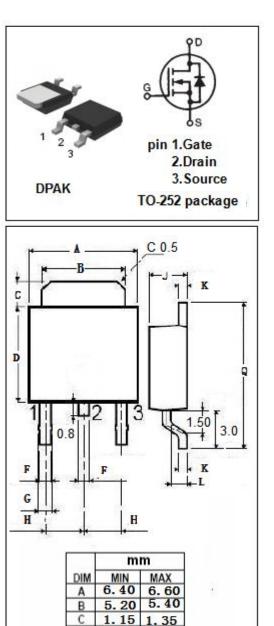
• Designed for use in switch mode power supplies and general purpose applications.

ADSOLUTE WAANVUW RATINGS(Ta-25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	60	V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous	47	A			
P _D	Total Dissipation @T _c =25℃	47	W			
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	2.7	°C/W



1	0.40	0.60
Ō	9.90	10.1

5.70 6.10 0.65

2 50

0.75

2.10

D

F

G

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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	60		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =0.65mA	1	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =23.6A		9.7	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =60V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S =23.6A; V _{GS} = 0		1.5	V

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