

isc N-Channel MOSFET Transistor

2SK1461

DESCRIPTION

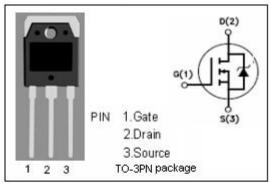
- Drain Current –I_D=5A@ T_C=25 ℃
- · Drain Source Voltage-
 - : V_{DSS}=900 (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

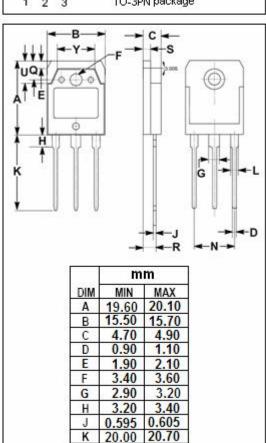
APPLICATIONS

 Designed especially for high voltage, high speed applications, such as off-line switching power supplies, UPS,AC and DC motor controls, relay and solenoid drivers.



SYMBOL	ARAMETER	VALUE	UNI T
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	900	V
V_{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ TC=25℃	5	А
P _{tot}	Total Dissipation@TC=25℃ 120		W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$





1.90

4.90 3.35 1.995 5.90

6.10

N



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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	900			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =2A		2.8	3.6	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} =900V; V _{GS} = 0			1	mA
V _{SD}	Diode Forward Voltage	I _F =5A; V _{GS} =0			1.8	V
tr	Rise time	V_{GS} =10V; I_D =2A; R_L =50 Ω		35		ns
ton	Turn-on time			50		ns
tf	Fall time			65		ns
toff	Turn-off time			265		ns

Notice:

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