

isc N-Channel MOSFET Transistor

2SK1161

FEATURES

- Drain Current –I_D= 10A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}= 450V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.8 \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

pin 1.Gate 2.Drain 3.Source TO-3PN package

DESCRIPTION

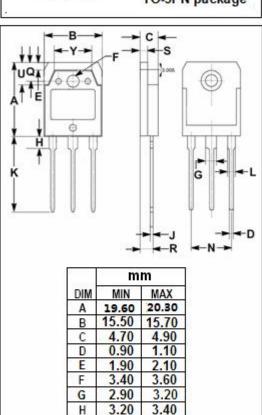
 Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	V	
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous		А
I _{DM}	Drain Current-Single Pluse 40		А
P _D	Total Dissipation @T _C =25℃ 100		W
TJ	Max. Operating Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature -65~150		\mathbb{C}

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	°C/W



0.595 0.605 19.80 20.70 1.90 2.20 10.89 10.91

4.90

3.35 1.995

5.90 **6.20** 9.90 | 10.10

N

Q

R



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	450		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2.0	3.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5.0A		0.8	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 360V; V _{GS} = 0		250	uA
V _{SD}	Forward On-Voltage	I _S = 5.0A; V _{GS} = 0		1.7	V



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