

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK565

FEATURES

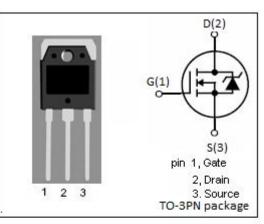
- Drain Current –I_D=9.6A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-
- : V_{DSS}= 500V(Min)
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

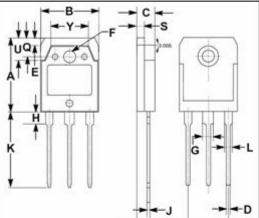
DESCRIPTION

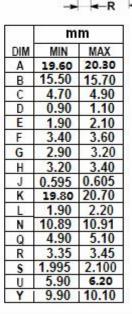
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	500	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	9.6	А
P _D	Total Dissipation @T _C =25℃	125	w
TJ	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C







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ELECTRICAL CHARACTERISTICS

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

SYMBO L	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 1mA	2.1		4.0	V
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5A			0.6	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} =0			250	μA
V _{SD}	Forward On-Voltage	I _S = 9.6A; V _{GS} =0		1.3	1.7	V

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