

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

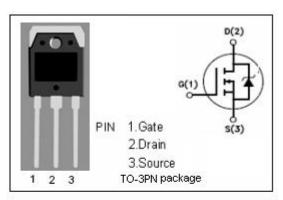
2SK1705

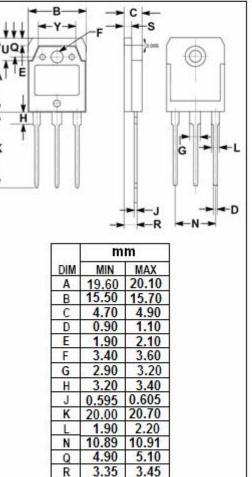
DESCRIPTION

- Drain Current I_D = 10A@ T_C=25°C
- Drain Source Voltage-
- : V_{DSS}= 500V(Min)
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Power supplies, converters and power motor controls





1.995

5.90

9.90

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11

Y

2.100

6.10

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	500	V
V _{GS}	Gate-Source Voltage	±30	V
ID	Drain Current-continuous@ Tc=25℃	10	A
P _{tot}	Total Dissipation@T _C =25℃	125	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	500		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5A		0.9	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0		1	mA



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