

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK1040

DESCRIPTION

- Drain Current –I_D=10A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=400V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Designed for high voltage, high speed power switching

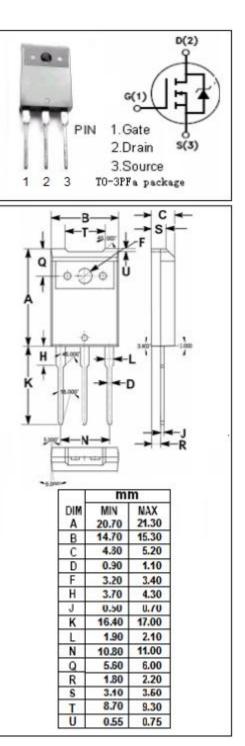
ABSOLUT	ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	SYMBOL ARAMETER		UNIT				
DSS	Drain-Source Voltage (V _{GS} =0)	400	V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-continuous@ TC=25℃	10	А				
P _{tot}	Total Dissipation@TC=25°C	50	W				
Tj	Max. Operating Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	- 55~150 ℃					

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.83	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	35	°C/W

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	ELECTRICAL CHARACTERISTICS (TC=25 C)								
SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT			
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	400			V			
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =0; I _D =1mA	1.0		5.0	V			
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =5A			1.0	Ω			
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA			
IDSS	Zero Gate Voltage Drain Current	V _{DS} =400V; V _{GS} = 0			500	uA			

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

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