

isc N-Channel MOSFET Transistor

2SK805

DESCRIPTION

- Drain Current –I_D=20A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=200V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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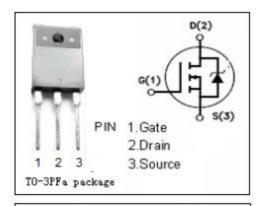
 high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

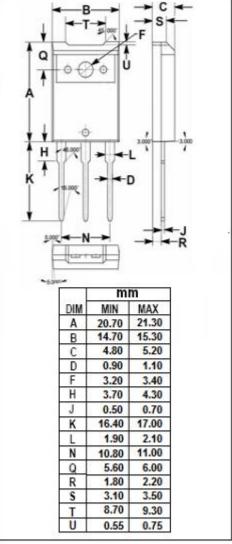
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	200	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=25°C	20	Α
P _{tot}	Total Dissipation@TC=25°C	100	W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.0	°C/W
R _{th j-a}	R _{th j-a} Thermal Resistance,Junction to Ambient		°C/W







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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10 V _{GS} ; I _D =1mA	1.0		5.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D = 10A		0.12	0.18	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±1	uA
IDSS	Zero Gate Voltage Drain Current	V _{DS} =160V; V _{GS} = 0			0.1	mA
ton	Turn-on time	V _{GS} =10V;I _D =10A;		100		ns
toff	Turn-off time	R _L =10 Ω		420		ns



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