

isc N-Channel MOSFET Transistor

2SK765

DESCRIPTION

- Drain Current –I_D= 10A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 400V(Min)
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

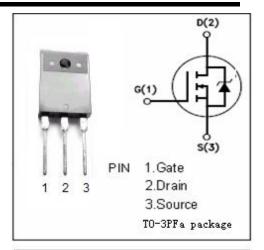
 Designed for high voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

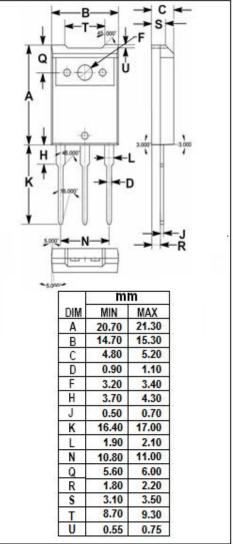
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	400	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-continuous@ TC=25℃	10	А	
P _{tot}	Total Dissipation@TC=25℃	100	W	
T _j	Max. Operating Junction Temperature	150	$^{\circ}$	
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}	Thermal Resistance,Junction to Ambient	62.5	°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	400			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =25 V; I _D =1mA	1.0		5.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D = 5A		0.5	0.75	Ω
Igss	Gate Source Leakage Current	V _{GS} = ±16V;V _{DS} = 0			±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =320V; V _{GS} = 0			100	uA
V _{SD}	Diode Forward Voltage	I _F =10A; V _{GS} =0		1.2		V



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