

isc N-Channel MOSFET Transistor

2SK1507

DESCRIPTION

- Drain Current –I_D=9A@ T_C=25 ℃
- · Drain Source Voltage-
 - : V_{DSS}=600 (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

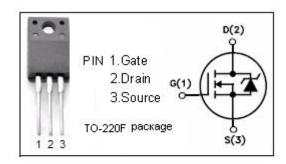


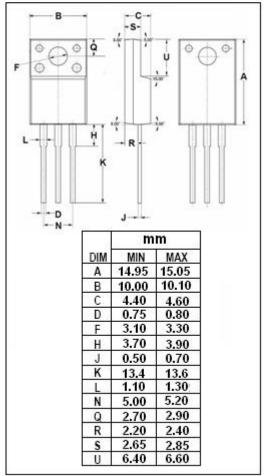
APPLICATIONS

 Designed especially for high voltage, high speed applications, such as off-line switching power supplies, UPS,AC and DC motor controls, relay and solenoid drivers.



SYMBOL	ARAMETER	VALUE	UNI T
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	600	V
V_{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ TC=25°C	9	Α
P _{tot}	Total Dissipation@TC=25°C	50	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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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 = 1mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =0; I _D =1mA	2.5	3.5	5.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =5A		0.85	1.0	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =600V; V _{GS} = 0			500	uA
V _{SD}	Diode Forward Voltage	I _F =9A; V _{GS} =0		1.1	1.5	V
tr	Rise time			30	45	ns
ton	Turn-on time	V _{GS} =10V;I _D =9A;R _L =25 Ω		80	120	ns
tf	Fall time			80	120	ns
toff	Turn-off time			160	240	ns

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