

isc N-Channel MOSFET Transistor

2SK1450

DESCRIPTION

- Drain Current –I_D=20A@ T_C=25 ℃
- · Drain Source Voltage-
 - : V_{DSS}=450 (Min)
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



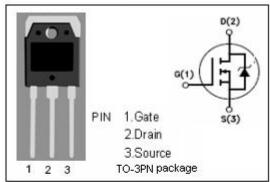


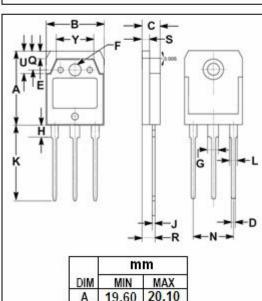
APPLICATIONS

· 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)	450	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ TC=25℃	20	А
P _{tot}	Total Dissipation@TC=25℃	150	W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$





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DIM	MIN	MAX	
Α	19.60	20.10	
В	15.50	15.70	
C	4.70	4.90	
D	0.90	1.10	
E	1.90	2.10	
F	3.40	3.60	
G	2.90	3.20	
Н	3.20	3.40	
J	0.595	0.605	
K	20.00	20.70	
L	1.90	2.20	
N	10.89	10.91	
Q	4.90	5.10	
R	3.35	3.45	
S	1.995	2.100	
U	5.90	6.10	
Y	9.90	10.10	



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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	450			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =10A		0.24	0.30	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} =450V; V _{GS} = 0			1	mA
V_{SD}	Diode Forward Voltage	I _F =20A; V _{GS} =0			1.8	V
tr	Rise time			100		ns
ton	Turn-on time	V _{GS} =10V;I _D =10A;R _L =50 Ω		140		ns
tf	Fall time			150		ns
toff	Turn-off time			600		ns

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