

isc N-Channel MOSFET Transistor

2SK1550

DESCRIPTION

- Drain Current –I_D=4A@ T_C=25 ℃
- · Drain Source Voltage-
 - : V_{DSS}=600 (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

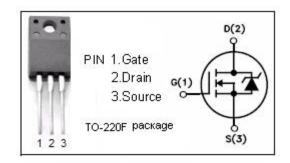
 Designed for high voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

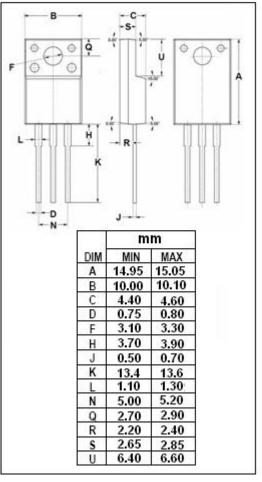


SYMBOL	ARAMETER	VALUE	UNI T
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	600	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ TC=25℃	4	Α
P _{tot}	Total Dissipation@TC=25℃	40	W
T _j	Max. Operating Junction Temperature 150		°C
T _{stg}	Storage Temperature Range -55~150		°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	3.125	°C/W
Rth j-a	Thermal Resistance,Junction to Ambient	62.5	°C/W







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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =0; I _D =1mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =2A			1.8	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



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