

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK1554

DESCRIPTION

- Drain Current –I_D=3A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=650 (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

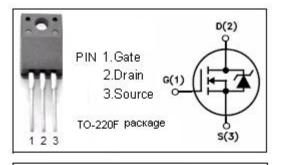
• Designed for high voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

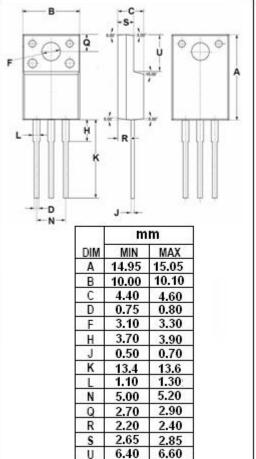
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	ARAMETER	VALUE	UNI T			
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	650	V			
V _{GS}	Gate-Source Voltage	±30	V			
ID	Drain Current-continuous@ TC=25°C	3	А			
P _{tot}	Total Dissipation@TC=25℃	30	w			
Tj	Max. Operating Junction Temperature	150	°C			
T _{stg}	Storage Temperature Range	-55~150	°C			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	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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ELECTRI	ELECTRICAL CHARACTERISTICS (TC=25 C)								
SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT			
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	650			V			
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =0; I _D =1mA	2.5		3.5	V			
$R_{\text{DS}(\text{on})}$	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =1.5A			4.5	Ω			
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA			
IDSS	Zero Gate Voltage Drain Current	V _{DS} =650V; V _{GS} = 0			500	uA			

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

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