

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK1322

DESCRIPTION

- Drain Current –I_D= 5A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=500V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for high voltage, high speed power switching.

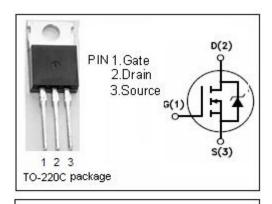
ABSOLUT	E MAXIMUM	RATINGS(Ta=	25°C)
			0

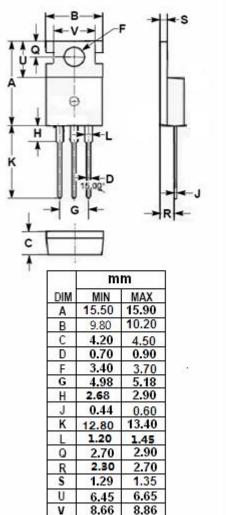
SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	500	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-continuous@ TC=25℃	5	A
P _{tot}	Total Dissipation@TC=25℃	75	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	0.83	°C/W	
R _{th j-a}	Thermal Resistance, Junction to Ambient	35	°C/W	

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	ELECTRICAL CHARACTERISTICS (TC=23 C)						
SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT	
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	500			V	
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10 V _{GS} ; I _D =1mA	2.0		4.0	V	
$R_{\text{DS}(\text{on})}$	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =3A			1.6	Ω	
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA	
IDSS	Zero Gate Voltage Drain Current	V _{DS} =500V; V _{GS} = 0			500	uA	

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

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