

isc N-Channel MOSFET Transistor

2SK1222

DESCRIPTION

- Drain Current –I_D=15A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 450V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

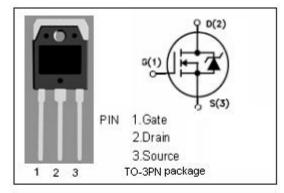
· Designed for high voltage, high speed power switching

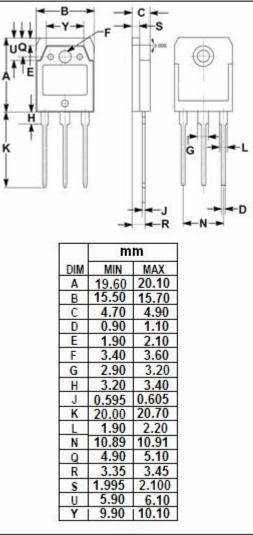
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	450	V
V _{GS}	Gate-Source Voltage	±20	V
Ι _D	Drain Current-continuous@ TC=25°C	15	Α
P _{tot}	Total Dissipation@TC=25°C	125	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.56	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	75	°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 = 1mA	450			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	2.5	3.5	5.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D = 6A			0.55	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 450V; V _{GS} = 0			500	uA



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