isc N-Channel MOSFET Transistor

2SK4222

FEATURES

- Drain Current : I_D= 23A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.34 \Omega (Max) @ V_{GS} = 10V$
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

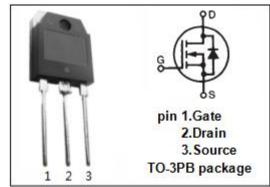
· motor drive, DC-DC converter, power switch and solenoid drive.

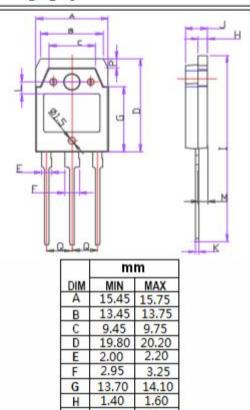
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	23	А
I _{DM}	Drain Current-Single Pluse	80	А
P _D	Total Dissipation @Tc=25℃	220	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.57	°C/W





	13,43	15.75
В	13.45	13.75
С	9.45	9.75
D	19.80	20.20
E	2.00	2.20
F	2.95	3.25
G	13.70	14.10
Н	1.40	1.60
I	18.45	18.75
J	4.70	4.90
K	0.50	0.70
L	2.20	2.60
M	1.20	1.60
Р	1.80	2.20
Q	5.25	5.65



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	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} = 10V; I _D = 1.0mA	3.0	5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 11.5A		0.34	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 480V; V _{GS} = 0		100	uA
V _{SD}	Forward On-Voltage	I _S = 23A; V _{GS} = 0		1.3	V

NOTICE:

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