

isc N-Channel MOSFET Transistor

2SK702

FEATURES

- Drain Current : ID= 5.0A@ TC=25 $^{\circ}\mathrm{C}$
- Drain Source Voltage
 - : V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.45 \Omega (Max) @ V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



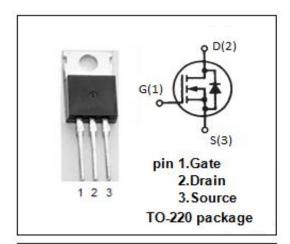
 motor drive, DC-DC converter, power switch and solenoid drive.

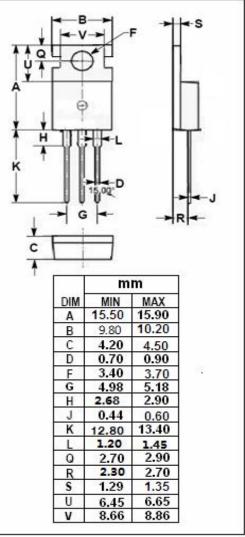
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	5.0	А
I _{DM}	Drain Current-Single Pluse	20	А
P _D	Total Dissipation @T _C =25℃ 50		W
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$
T _{stg}	Storage Temperature -55~150		${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°C/W







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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 = 1.0mA	100		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	1.0	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5.0A V _{GS} = 4V; I _D = 5.0A		0.45 0.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0	I	±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} = 0	1	10	uA
V _{SD}	Forward On-Voltage	I _S = 5.0A; V _{GS} = 0	1	1.7	V

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