

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK4202

FEATURES

- Drain Current : I_D= 84A@ T_C=25℃
- Drain Source Voltage : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 7.5m Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

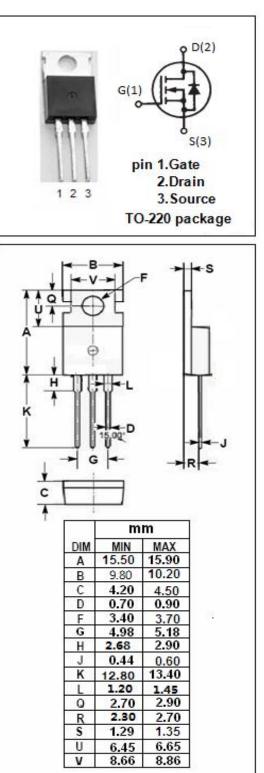
• motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE WANTWOW RATINGS (Ta=25 C)						
SYMBOL	DL PARAMETER VALUE		UNIT			
V _{DSS}	Drain-Source Voltage 60		V			
V _{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous 84		A			
I _{DM}	Drain Current-Single Pluse 240		A			
P _D	Total Dissipation @Tc=25°C 104		W			
TJ	Max. Operating Junction Temperature	erating Junction Temperature -55~150				
T _{stg}	Storage Temperature	-55~150	°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	PARAMETER MAX U		
R _{th j-c}	Thermal Resistance, Junction to Case	1.2	°C/W	





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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	60		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	2.0	4.0	V
$R_{\text{DS(on)}}$	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 42A		7.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 60V; V _{GS} = 0		10	uA
V _{SD}	Forward On-Voltage	I _S = 84A; V _{GS} = 0		1.5	V

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