

isc N-Channel MOSFET Transistor

2SK4210

FEATURES

- Drain Current : I_D= 10A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 900V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 1.3 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

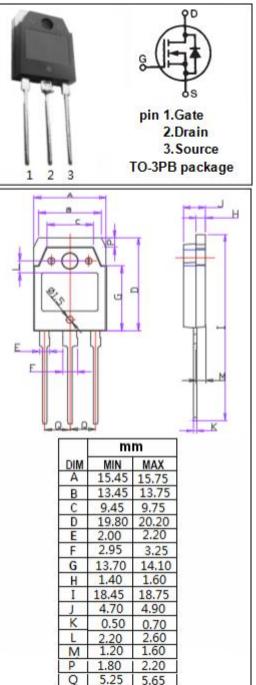
 motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)							
SYMBOL	PARAMETER VALUE		UNIT				
V _{DSS}	Drain-Source Voltage	900	V				
V _{GS}	Gate-Source Voltage-Continuous ±3		V				
ID	Drain Current-Continuous	10	A				
I _{DM}	Drain Current-Single Pluse	20	A				
PD	Total Dissipation @Tc=25℃	190	W				
TJ	Max. Operating Junction Temperature	ature -55~150					
T _{stg}	Storage Temperature -55~150		°C				

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	0.66	°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	900		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5A		1.3	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0		±0.1	uA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 720V; V _{GS} = 0		1.0	mA
V _{SD}	Forward On-Voltage	I _S = 10A; V _{GS} = 0		1.2	V

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