

isc N-Channel MOSFET Transistor

2SK4100LS

FEATURES

- Drain Current : I_D= 6.0A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 650V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 1.35 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

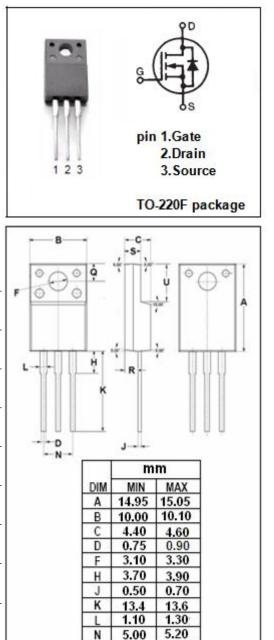
 motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	650	V			
V _{GS}	Gate-Source Voltage-Continuous	±30	V			
ID	Drain Current-Continuous	6.0	A			
I _{DM}	Drain Current-Single Pluse	24	A			
PD	Total Dissipation @Tc=25℃	33	W			
TJ	Max. Operating Junction Temperature -55~150		°C			
T _{stg}	Storage Temperature -55~1		°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	3.79	°C/W	



2.90

2.40

2.90

6.60

0

R

S

U

2.70

2.20

6.40



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	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 = 3.0A		1.35	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} = 520V; V _{GS} = 0		100	uA
V _{SD}	Forward On-Voltage	I _S = 6.0A; V _{GS} = 0		1.2	V

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