

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK3925-01

FEATURES

- Drain Current : I_D= 34A@ T_C=25℃
- Drain Source Voltage : V_{DSS}= 250V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 110m Ω (Max) @V_{GS}=10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

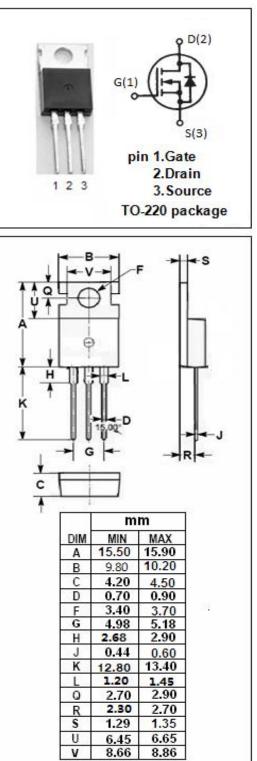
· motor drive, DC-DC converter, power switch and solenoid drive.

SYMBOL	PARAMETER VALUE		UNIT		
V _{DSS}	Drain-Source Voltage 250		V		
V _{GS}	Gate-Source Voltage-Continuous ±30		V		
ID	Drain Current-Continuous	34	A		
I _{DM}	Drain Current-Single Pluse	136	A		
PD	Total Dissipation @Tc=25℃	270	W		
TJ	Max. Operating Junction Temperature	-55~150	°C		
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	0.463	°C/W





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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 = 0.25mA	250		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	3.0	5.0	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 17A		110	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 250V; V _{GS} = 0		25	uA
V _{SD}	Forward On-Voltage	I _S = 34A; V _{GS} = 0		1.5	V

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