

isc N-Channel MOSFET Transistor

2SK3930-01S

FEATURES

- Drain Current : I_D= 11A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)}$ = 800m Ω (Max) @V_{GS}=10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

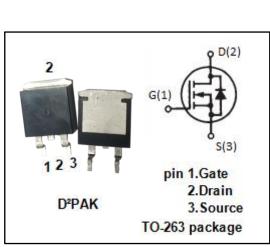
 motor drive, DC-DC converter, power switch and solenoid drive.

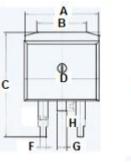
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER VALU		UNIT
V _{DSS}	Drain-Source Voltage	600	
V _{GS}	Gate-Source Voltage-Continuous	±30	V
ID	Drain Current-Continuous		A
I _{DM}	Drain Current-Single Pluse 44		A
P _D	Total Dissipation @Tc=25℃ 195		W
TJ	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature -55~150		°C

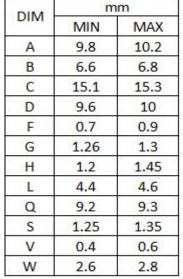
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.641	°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 = 0.25mA	600		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 = 5.5A		800	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} = 600V; V _{GS} = 0		25	uA
V _{SD}	Forward On-Voltage	I _S = 11A; V _{GS} = 0		1.5	V

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