

isc N-Channel MOSFET Transistor

2SK3921-01L

FEATURES

- Drain Current : I_D= 67A@ T_C=25 ℃
- Drain Source Voltage
 - : V_{DSS}= 120V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 30m \Omega (Max) @V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



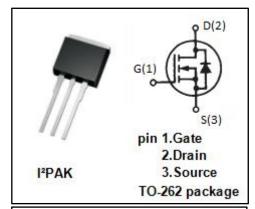
 motor drive, DC-DC converter, power switch and solenoid drive.

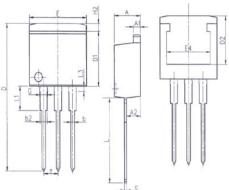
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	120	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	67	А
I _{DM}	Drain Current-Single Pluse	268	А
P _D	Total Dissipation @Tc=25℃	270	W
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$
T _{stg}	Storage Temperature -55~150		${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.463	°C/W





	MM		
DIM	MIN	MAX	
Α	4. 37	4. 77	
A1	1. 22	1.42	
A2	2. 47	2.87	
b	0.7	0.97	
b2	1.17	1.42	
С	0.28	0.53	
D	23. 2	24.02	
D1	8. 38	8.9	
D2	6	1	
E	9.9	10.39	
E4	7.3	1	
E	2. 54BSC		
G	1. 25	1.5	
H2	1	1. 31	
L	13.34	14.1	
L1	3. 3	4.06	
L3	0.95	1.15	



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	120		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 = 33.5A		30	m 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} = 120V; V _{GS} = 0		25	uA
V _{SD}	Forward On-Voltage	I _S = 67A; V _{GS} = 0		1.5	V

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