

isc N-Channel MOSFET Transistor

2SK3933-01L

FEATURES

- Drain Current : ID= 11A@ TC=25 $^{\circ}\mathrm{C}$
- Drain Source Voltage
 - : V_{DSS}= 500V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 700 \text{m} \Omega \text{ (Max) @V_{GS}} = 10 \text{V}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



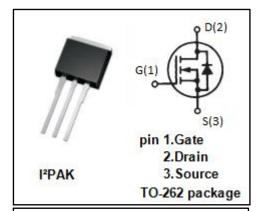
 motor drive, DC-DC converter, power switch and solenoid drive.

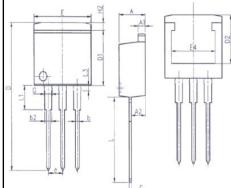
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	500	V
V _G s	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	11	А
I_{DM}	Drain Current-Single Pluse	44	А
P_D	Total Dissipation @T _C =25℃	165	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.76	°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	
13	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	500		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		700	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} = 500V; V _{GS} = 0		25	uA
V _{SD}	Forward On-Voltage	I _S = 11A; V _{GS} = 0		1.5	V



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