

# isc N-Channel MOSFET Transistor

# 2SK3674-01L

### **FEATURES**

- Drain Current : I<sub>D</sub>= 7.0A@ T<sub>C</sub>=25℃
- Drain Source Voltage
  - : V<sub>DSS</sub>= 900V(Min)
- Static Drain-Source On-Resistance
  - : R<sub>DS(on)</sub> = 2.0 Ω (Max) @ V<sub>GS</sub>= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



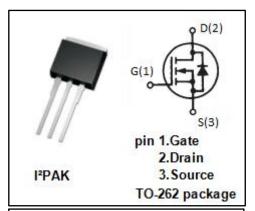
 motor drive, DC-DC converter, power switch and solenoid drive.

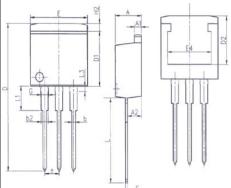
## ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage	900	V
V <sub>GS</sub>	Gate-Source Voltage-Continuous	±30	V
I <sub>D</sub>	Drain Current-Continuous	7.0	А
I <sub>DM</sub>	Drain Current-Single Pluse	28	А
P <sub>D</sub>	Total Dissipation @Tc=25℃	225	W
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$
T <sub>stg</sub>	Storage Temperature -55~150		$^{\circ}$

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance, Junction to Case	0.56	°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<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> = 0; I <sub>D</sub> = 0.25mA	900		V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = 10V; I <sub>D</sub> = 0.25mA	3.0	5.0	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> = 3.5A		2.0	Ω
I <sub>GSS</sub>	Gate-Body Leakage Current	V <sub>GS</sub> = ±30V;V <sub>DS</sub> = 0		±0.1	uA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> = 900V; V <sub>GS</sub> = 0		50	uA
V <sub>SD</sub>	Forward On-Voltage	I <sub>S</sub> = 7.0A; V <sub>GS</sub> = 0	-	1.5	V



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