

isc N-Channel MOSFET Transistor

2SK3511-S

FEATURES

- Drain Current : I_D= 83A@ T_C=25 ℃
- Drain Source Voltage
 - : V_{DSS}= 75V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 12.5 \text{m} \Omega \text{ (Max)} @ V_{GS} = 10 \text{V}$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



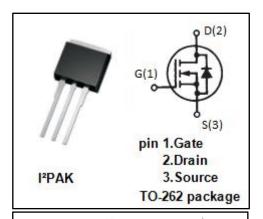
 motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	75	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	83	А
І _{ОМ}	Drain Current-Single Pluse	260	А
P _D	Total Dissipation @T _C =25℃	100	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	1.25	°C/W



E	A A A	F-3-1
b2 b2	AZ	

	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. 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 = 1mA	75		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	VGS= 10V; ID= 42A		12.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =75V; V _{GS} = 0		10	uA
V _{SD}	Forward On-Voltage	I _S = 83A; V _{GS} = 0		1.1	V



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