

isc N-Channel MOSFET Transistor

2SK2164

FEATURES

- Drain Current –I_D= 45A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=60V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.02 \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

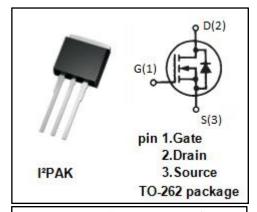
 motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _G s	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	45	A
P _D	Total Dissipation @TC=25℃	70	W
TJ	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.79	°C/W



E	D1 H2	A	+4
G 5		A2_	
		- C	

	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	60		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	1	2	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 22.5A		0.02	Ω
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =60V; V _{GS} = 0		100	uA
V _{SD}	Forward On-Voltage	I _S = 45A; V _{GS} = 0	1	1.5	V

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