isc N-Channel MOSFET Transistor

2SK3880

FEATURES

- Drain Current : ID= 6.5A@ TC=25 $^{\circ}\mathrm{C}$
- Drain Source Voltage
 - : V_{DSS}= 800V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 1.7 \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



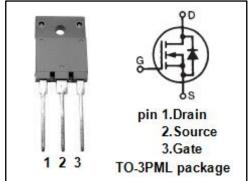
 motor drive, DC-DC converter, power switch and solenoid drive.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	800	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	6.5	А
I _{DM}	Drain Current-Single Pluse	19.5	А
P _D	Total Dissipation @Tc=25℃	80	W
TJ	Max. Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.56	°C/W



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	DIM	MIN	MAX	
	Α	19.90	20.10	

DIM	MIN	MAX	
Α	19.90	20.10	
В	15.75	16.10	
C	5.50	5.70	
D	0.90	1.10	
F	3.30	3.50	
G	2.90	3.20	
Н	5.90	6.10	
J	0.595	0.70	
K	21.10	22.50	
L	1.90	2.25	
N	10.80	11.00	
0	4.90	5.10	
R	3.75	3.95	
S	3.20	3.60	
U	9.90	10.10	
Y	4.20	4.90	
Z	1.90	2.10	

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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	800		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 3.5A		1.7	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 640V; V _{GS} = 0		100	uA
V _{SD}	Forward On-Voltage	I _S = 6.5A; V _{GS} = 0		1.7	V



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