isc N-Channel MOSFET Transistor

2SK2847

FEATURES

- Drain Current : I_D= 8.0A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 900V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 1.4 \Omega (Max) @V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



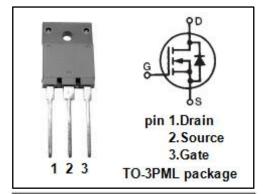
 motor drive, DC-DC converter, power switch and solenoid drive.

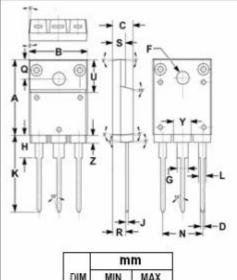
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	900	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	8.0	А
I _{DM}	Drain Current-Single Pluse	24	А
P _D	Total Dissipation @Tc=25℃	85	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	1.47	°C/W





	Access 10.1	
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
H	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 = 10mA	900		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 = 4A		1.4	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 720V; V _{GS} = 0		100	uA
V _{SD}	Forward On-Voltage	I _S = 8A; V _{GS} = 0	-	1.9	V



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