

isc N-Channel MOSFET Transistor

2SK578

FEATURES

- Drain Current : I_D= 15A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 150V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.22 \Omega (Max) @ V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

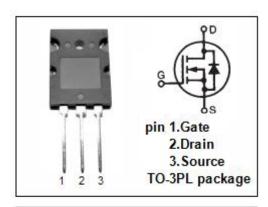
 motor drive, DC-DC converter, power switch and solenoid drive.

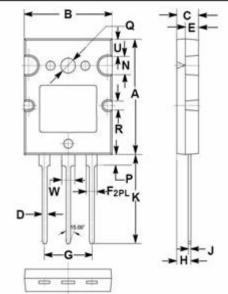
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	15	А
I _{DM}	Drain Current-Single Pluse	30	А
P _D	Total Dissipation @Tc=25℃	120	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	1.04	°C/W





	mm		
DIM	MIN	MAX	
Α	25.50	26.50	
В	19.80	20.20	
C	4.50	5.50	
D	0.90	1.10	
E	2.80	3.20	
F	2.40	2.60	
G	10.80	11.00	
Н	3.10	3.30	
J	0.50	0.70	
K	20.00	21.00	
N	3.90	4.50	
Р	2.40	2.60	
Q	3.10	3.50	
R	1.90	2.60	
U	3.90	4.10	
W	2.90	3.25	



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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	150		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	1.5	3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 15A		0.22	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 150V; V _{GS} = 0		1.0	mA
V _{SD}	Forward On-Voltage	I _S = 15A; V _{GS} = 0		1.8	V

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