

isc N-Channel MOSFET Transistor

2SK3674-01S

FEATURES

- Drain Current : I_D= 7.0A@ T_C=25℃
- Drain Source Voltage : V_{DSS}= 900V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 2.0 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

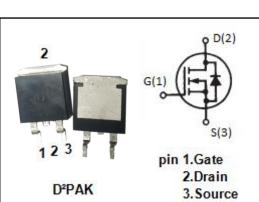
DESCRIPTION

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

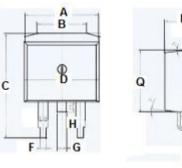
SYMBOL	PARAMETER VALUE		UNIT
V _{DSS}	Drain-Source Voltage	n-Source Voltage 900	
V _{GS}	Gate-Source Voltage-Continuous ±30		V
ID	Drain Current-Continuous 7.0		A
I _{DM}	Drain Current-Single Pluse 28		A
P _D	Total Dissipation @Tc=25℃	°c=25℃ 225	
TJ	Max. Operating Junction Temperature -55~150		°C
T _{stg}	Storage Temperature -55~150		°C

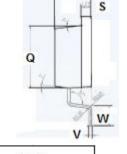
THERMAL CHARACTERISTICS

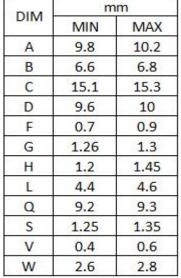
SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.56	°C/W



TO-263 package









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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	900		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	3.0	5.0	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 3.5A		2.0	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 900V; V _{GS} = 0		50	uA
V _{SD}	Forward On-Voltage	I _S = 7.0A; V _{GS} = 0		1.5	V

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