

isc N-Channel MOSFET Transistor

2SK3679-01MR

FEATURES

- Drain Current : I_D= 9.0A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 900V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 1.58 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.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER	PARAMETER VALUE				
V _{DSS}	Drain-Source Voltage 900		V			
V _{GS}	Gate-Source Voltage-Continuous ±30		V			
ID	Drain Current-Continuous 9.0		A			
I _{DM}	Drain Current-Single Pluse	36	A			
PD	Total Dissipation @Tc=25℃	al Dissipation @T _c =25°C 95				
TJ	Max. Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

PARAMETER

Thermal Resistance, Junction to Case

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL

Rth j-c

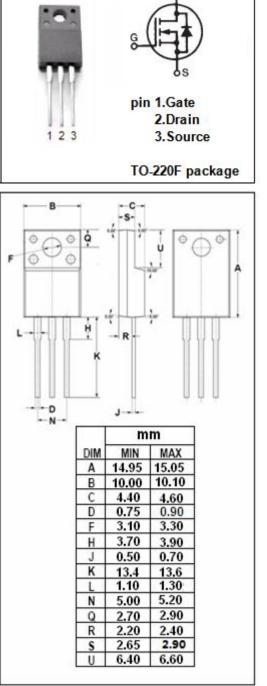
isc website: <u>www.iscsemi.com</u> ¹ *isc & iscsemi* is registered trademark

MAX

1.32

UNIT

°C/W





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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 = 4.5A		1.58	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		25	uA
V _{SD}	Forward On-Voltage	I _S = 9.0A; V _{GS} = 0		1.5	V

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