

isc N-Channel MOSFET Transistor

2SK2072S

FEATURES

- Drain Current –I_D= 6A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=800V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 2.1 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

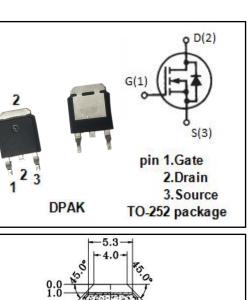
 motor drive, DC-DC converter, power switch and solenoid drive.

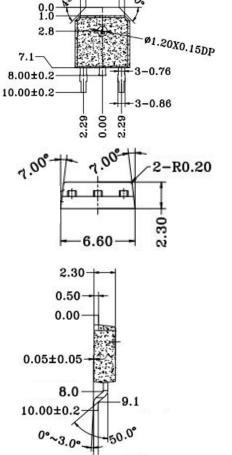
ABSOLUTE MAXIMUM NATINGS(Ta=23 C)						
SYMBOL	PARAMETER VALUE		UNIT			
V _{DSS}	Drain-Source Voltage	800	V			
V _{GS}	Gate-Source Voltage-Continuous ±		V			
ID	Drain Current-Continuous		A			
I _{DM}	Drain Current-Single Pluse	24	A			
PD	Total Dissipation @Tc=25°C 80		W			
TJ	Max. Operating Junction Temperature	ature 150				
T _{stg}	Storage Temperature	-55~150	°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

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





0.50

isc website: www.iscsemi.com

¹ *isc & iscsemi* is registered trademark



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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 = 1mA	800		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2.5	3.5	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 3A		2.1	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} =800V; V _{GS} = 0		500	uA
Vsd	Forward On-Voltage	I _S = 6A; V _{GS} = 0		1.6	V

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