

isc N-Channel MOSFET Transistor

2SK2071-01L

FEATURES

- High speed switching
- Low On-Resistance
- Low driving power
- High voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

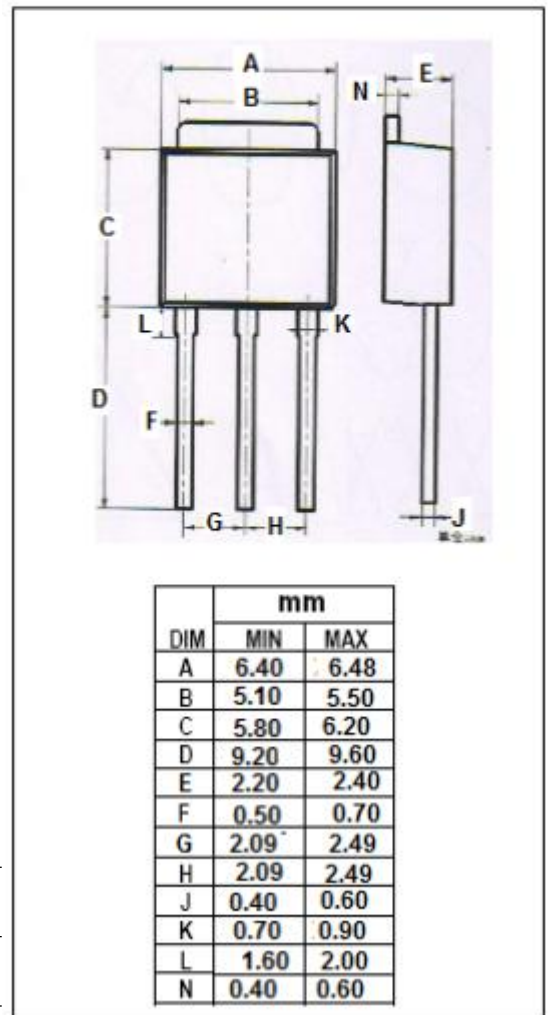
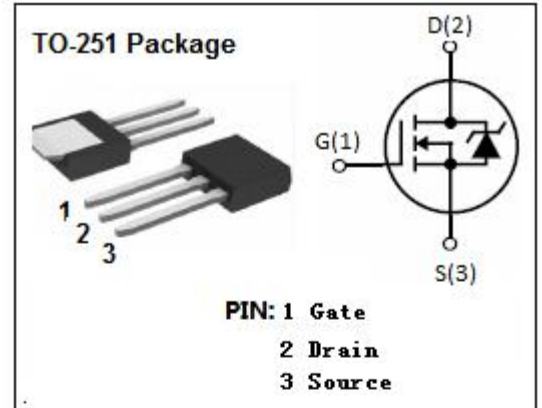
- Switching regulators
- UPS
- DC-DC converters
- General purpose power amplifier

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	2	A
I _{DM}	Drain Current-Single Pluse	6	A
P _D	Total Dissipation @T _c =25°C	20	W
T _J	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	6.25	°C/W



isc N-Channel MOSFET Transistor**2SK2071-01L****ELECTRICAL CHARACTERISTICS**T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1.0mA	600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 10mA	2.1	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1.0A		6.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V; V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0		500	μ A
V _{SD}	Forward On-Voltage	I _S = 4A; V _{GS} = 0		1.41	V

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.