

isc N-Channel MOSFET Transistor

2SK3047

FEATURES

- Drain Current : I_D= 2A@ T_C=25℃
- · Drain Source Voltage
 - : V_{DSS}= 800V(Min)
- · Static Drain-Source On-Resistance
- : $R_{DS(on)} = 7 \Omega (Max) @ V_{GS} = 10V$
- 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.

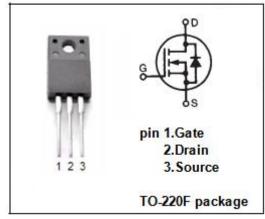


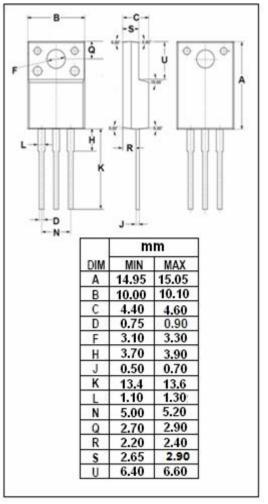


SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	800	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
l _D	Drain Current-Continuous	2	А
I _{DM}	Drain Current-Single Pluse	4	А
P _D	Total Dissipation @T _C =25℃	30	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	4.17	°C/W





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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 = 1mA	800		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 25V; I _D = 1mA	2	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =1A		7	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 640V; V _{GS} = 0		0.1	mA
V _{SD}	Forward On-Voltage	I _S =2A; V _{GS} = 0		1.3	V

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