

isc N-Channel MOSFET Transistor

2SK971

FEATURES

- Drain Current : I_D= 15A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 65m Ω (Max) @ V_{GS} = 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



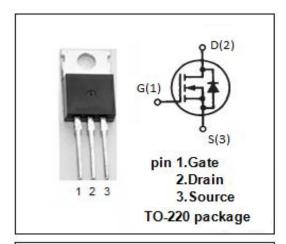
 motor drive, DC-DC converter, power switch and solenoid drive.

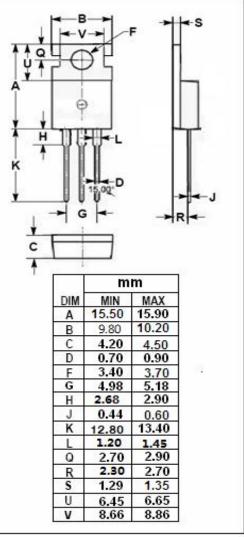
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage-Continuous ±20		V
I _D	Drain Current-Continuous	15	А
I _{DM}	Drain Current-Single Pluse 60		А
P _D	Total Dissipation @Tc=25℃	ssipation @Tc=25°C 40	
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	3.125	°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 = 10mA	60		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	1.0	2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 8.0A		65	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±16V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 50V; V _{GS} = 0		250	uA
V _{SD}	Forward On-Voltage	I _S = 15A; V _{GS} = 0		1.5	V



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