

isc N-Channel MOSFET Transistor

2SK901

FEATURES

- Drain Current : I_D= 20A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 250V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.15 \Omega$ (Max) @ $V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



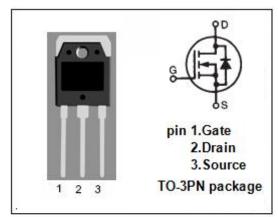
 motor drive, DC-DC converter, power switch and solenoid drive.

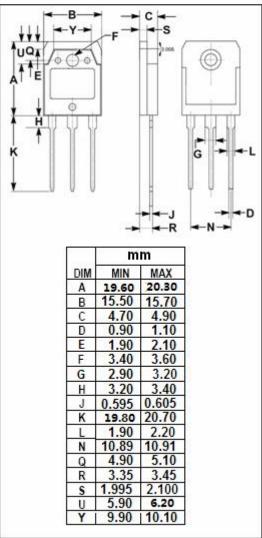
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	250	V
V _G s	Gate-Source Voltage-Continuous ±2		V
I _D	Drain Current-Continuous	20	А
I_{DM}	Drain Current-Single Pluse	80	А
P_D	Total Dissipation @Tc=25℃ 125		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	1.0	°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 = 1.0mA	250		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	2.1	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 10A		0.15	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 250V; V _{GS} = 0		500	uA
V _{SD}	Forward On-Voltage	I _S = 20A; V _{GS} = 0		1.7	V

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