

isc N-Channel MOSFET Transistor

2SK896

FEATURES

- Drain Current : I_D= 12A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage : V_{DSS}= 500V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.6 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

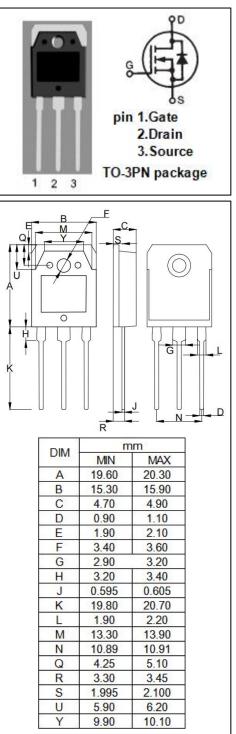
 motor drive, DC-DC converter, power switch and solenoid drive.

ADSOLUTE WAATWOW RATINGS(Ta=25 C)						
SYMBOL	PARAMETER VALUE		UNIT			
V _{DSS}	Drain-Source Voltage 500		V			
V _{GS}	Gate-Source Voltage-Continuous ±20		V			
ID	Drain Current-Continuous 12		A			
I _{DM}	Drain Current-Single Pluse 36		A			
P _D	Total Dissipation @T _c =25°C 125		W			
TJ	Max. Operating Junction Temperature	erature -55~150				
T _{stg}	Storage Temperature -55~150		°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1.0mA	500		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	1.5	3.5	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 6.0A		0.6	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} = 500V; V _{GS} = 0		10	uA
V _{SD}	Forward On-Voltage	I _S = 6.0A; V _{GS} = 0		1.5	V

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