

isc N-Channel MOSFET Transistor

2SK903-MR

FEATURES

- Drain Current : ID= 3.0A@ TC=25 $^{\circ}\mathrm{C}$
- Drain Source Voltage
 - : V_{DSS}= 800V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 4 \Omega (Max) @ V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

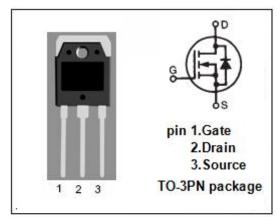
 motor drive, DC-DC converter, power switch and solenoid drive.

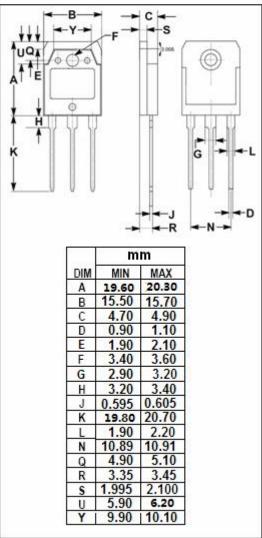
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER VALU		UNIT
V _{DSS}	Drain-Source Voltage 800		V
V _{GS}	Gate-Source Voltage-Continuous ±20		V
I _D	Drain Current-Continuous 3.0		А
I _{DM}	Drain Current-Single Pluse 12		А
P _D	Total Dissipation @Tc=25℃ 40		W
TJ	Max. Operating Junction Temperature	ction Temperature -55~150	
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 = 1.0mA	800		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 = 1.5A		4.0	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} = 800V; V _{GS} = 0		500	uA
V _{SD}	Forward On-Voltage	I _S = 3.0A; V _{GS} = 0		1.35	V



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