

isc N-Channel MOSFET Transistor

2SK703

FEATURES

- Drain Current : I_D= 5.0A@ T_C=25 $^\circ\!\!\mathbb{C}$
- Drain Source Voltage : V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.45 Ω (Max) @ V_{GS}= 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

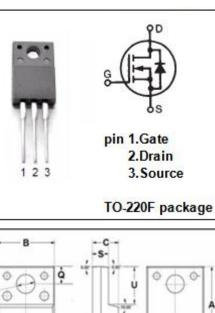
DESCRIPTION

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

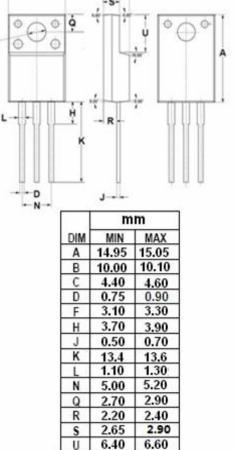
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage 10		V				
V _{GS}	Gate-Source Voltage-Continuous	±20	V				
Ι _D	Drain Current-Continuous	5.0	A				
I _{DM}	Drain Current-Single Pluse	20	A				
PD	Total Dissipation @Tc=25℃	35	W				
TJ	Max. Operating Junction Temperature -55~150		°C				
T _{stg}	Storage Temperature	-55~150	°C				

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT	
R _{th j-c}	Thermal Resistance, Junction to Case	3.57	୯ /W	



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1.0mA	100		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1.0mA	1.0	2.5	V
R _{DS} (on)	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5.0A V _{GS} = 4V; I _D = 5.0A		0.45 0.5	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} = 100V; V _{GS} = 0		10	uA
V _{SD}	Forward On-Voltage	I _S = 5.0A; V _{GS} = 0		1.7	V

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