

isc N-Channel MOSFET Transistor

2SK3703

• FEATURES

- Drain Source Voltage-
 - : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 26m Ω (Max)
- · Fast Switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

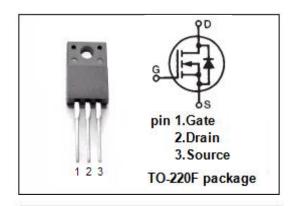
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives

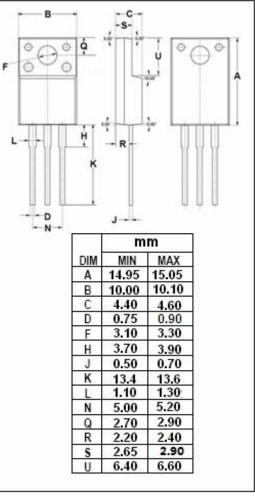
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	60	V	
V _{GS}	Gate-Source Voltage-Continuous	ge-Continuous ±20		
I _D	Drain Current-Continuous	30	Α	
I _{DM}	Drain Current-Single Plused	120	Α	
P _D	Total Dissipation @T _C =25℃	25	W	
Tj	Max. Operating Junction Temperature	x. Operating Junction Temperature -55~150		
T _{stg}	Storage Temperature -55~150		$^{\circ}$ C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	5	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =1mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	1.2		2.6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 15A V _{GS} = 4V; I _D = 15A			26 40	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±16V;V _{DS} = 0			±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =60V; V _{GS} = 0			1	μΑ
V _{SD}	Diode Forward On-voltage	I _F =30A;V _{GS} = 0			1.2	V



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