

iscN-Channel MOSFET Transistor

2SK3700

• FEATURES

- Low drain-source on-resistance:
 R_{DS}(ON) = 2.5Ω (MAX)
- Enhancement mode:Vth = 2 to 4 V (VDS = 10 V, ID=1.0mA)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



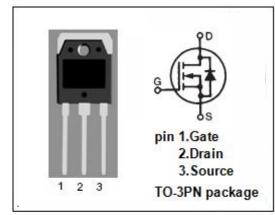
· Switching Voltage Regulators

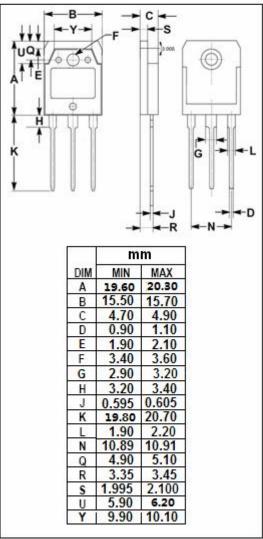
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	900	V
V_{GS}	Gate-Source Voltage	e-Source Voltage ±30	
lο	Drain Current-Continuous 5		А
I _{DM}	Drain Current-Single Pulsed	15	Α
P _D	Total Dissipation @T _C =25°C 150		W
Tj	Max. Operating Junction Temperature	ature 150	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.833	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	900			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1.0mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =3A			2.5	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±10	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =720V; V _{GS} = 0V			100	μ А
V_{SDF}	Diode forward voltage	I_{DR} =5A, V_{GS} = 0 V			1.7	V



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