

isc N-Channel MOSFET Transistor

2SK3711

FEATURES

- Drain Current –I_D=70A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=60V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 6m Ω (Max) 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

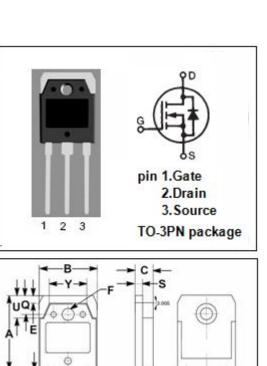
• Designed for use in switch mode power supplies and general purpose applications.

ADSOLUTE MAXIMUM RATINGS(Ta-25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	60	V			
V_{GS}	Gate-Source Voltage-Continuous	±20	V			
ID	Drain Current-Continuous	70	A			
I _{DM}	Drain Current-Single Pluse	140	A			
PD	Total Dissipation @Tc=25℃	130	W			
TJ	Max. Operating Junction Temperature	150	°C			
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	0.96	°C/W



R mm DIM MIN MAX 19.60 20.30 А 15.50 15.70 В 4.70 4.90 С D 0.90 1.10 E 1.90 2.10 3.40 F 3.60 2.90 G 3.20 3.20 Н 1 0.595 0.605 κ 19.80 20.70 1.90 2 20 N 10.89 4.90 Q R 3.35 3.451.995 s 2.100 5.90 6.20 U 10.10 Y 9.90

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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 = 0.1mA	60		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 35A		6	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±15V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =60V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S =50A; V _{GS} = 0		1.5	V

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