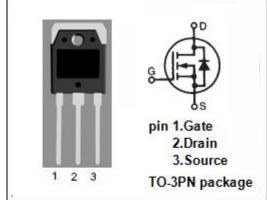


isc N-Channel MOSFET Transistor

2SK3801

FEATURES

- Drain Current –I_D=70A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=40V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 6m \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

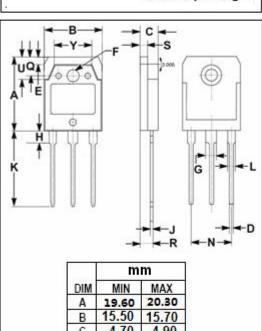
 Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

1 = 3 = 3 = 1 = 1 = 1 = 3 = 1 = 3 = 3 =					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	40	V		
V _{GS}	Gate-Source Voltage-Continuous	±20	V		
I _D	Drain Current-Continuous	70	Α		
I _{DM}	Drain Current-Single Pluse	140	Α		
P _D	Total Dissipation @T _C =25℃	100	W		
TJ	Max. Operating Junction Temperature	150	$^{\circ}$		
T _{stg}	Storage Temperature	-40~150	$^{\circ}$ C		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.25	°C/W



DIM	MIN	MAX	
Α	19.60	20.30	
В	15.50	15.70	
C	4.70	4.90	
D	0.90	1.10	
E	1.90	2.10	
F	3.40	3.60	
G	2.90	3.20	
Н	3.20	3.40	
J	0.595	0.605	
K	19.80	20.70	
L	1.90	2.20	
N	10.89	10.91	
Q	4.90	5.10	
R	3.35	3.45	
S	1.995	2.100	
U	5.90	6.20	
Y	9.90	10.10	



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2SK3801

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 = 0.1mA	40		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} =40V; V _{GS} = 0		100	μ А
V _{SD}	Forward On-Voltage	I _S =50A; V _{GS} = 0		1.5	V



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