

isc N-Channel MOSFET Transistor

2SK818A

DESCRIPTION

- Drain Current –I_D=5A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=900V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS



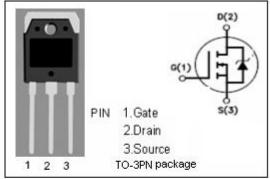
 Designed for high voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

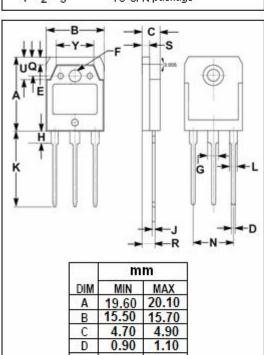
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	NIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	900	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=25℃	5	Α
P _{tot}	Total Dissipation@TC=25℃	100	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.0	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	62.5	°C/W





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DIM	MIN	MAX	
Α	19.60	20.10	
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	20.00	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	6.10	
Y	9.90	10.10	



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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 1mA	900			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =25 V _{GS} ; I _D =1mA	1.0		5.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D = 3A		1.5	3.0	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±1	uA
IDSS	Zero Gate Voltage Drain Current	V _{DS} =640V; V _{GS} = 0			0.1	mA
ton	Turn-on time	V _{GS} =10V;I _D =3A;		60		ns
toff	Turn-off time	R _L =66 Ω		365		ns



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