

isc N-Channel MOSFET Transistor

2SK1169

FEATURES

- With TO-3P packaging
- · High speed switching
- Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

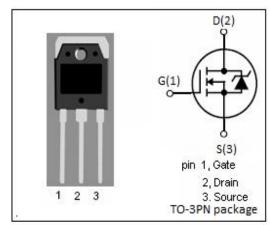
- Power supply
- · Switching applications

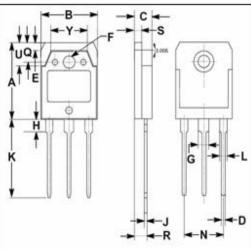


712002012 III/04III/05II 10/11/100(1a 20/0)					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	450	V		
V _{GSS}	Gate-Source Voltage	±30	V		
ID	Drain Current-Continuous	20	A		
I _{DM}	Drain Current-Single Pulsed	80	А		
P _D	Total Dissipation	120	W		
T _j	Operating Junction Temperature	-55~150	$^{\circ}$ C		
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$		

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.04	°C/W





	mm		
DIM	MIN	MAX	
Α	19.60	20.30	
В	15.50	15.70	
С	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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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =10mA	450			V
$V_{\text{GS(off)}}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =10mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =10A		200	250	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =360V; V _{GS} = 0;			25	μА
V _{SDF}	Diode forward voltage	I _{SD} =20A, V _{GS} = 0 V		1.0		V

NOTICE:

incidental damages.

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