

isc N-Channel MOSFET Transistor

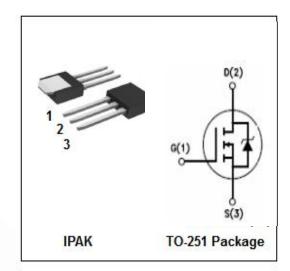
2SK974L

• FEATURES

- With TO-251(IPAK) 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



- Power supply
- Switching applications

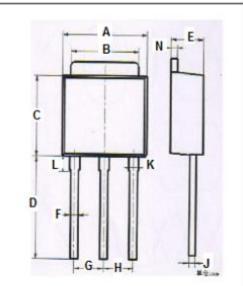


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GSS}	Gate-Source Voltage	±20	V
Ι _D	Drain Current-Continuous	3	А
I _{DM}	Drain Current-Single Pulsed	12	А
P_{D}	Total Dissipation	20	W
Tj	Operating Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	6.25	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	40	°C/W	



	mm		
DIM	MIN	MAX	
Α	6.40	6.48	
В	5.10	5.50	
С	5.80	6.20	
D	9.20	9.60	
E	2.20	2.40	
F	0.50	0.70	
G	2.09	2.49	
Н	2.09	2.49	
J	0.40	0.60	
K	0.70	0.90	
L	1.60	2.00	
N	0.40	0.60	

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =1mA	1.0		2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =2A		152	180	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±16V;V _{DS} = 0V			±10	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 50V; V _{GS} = 0V			100	μА
V _{SDF}	Diode forward voltage	I _{SD} =3A, V _{GS} = 0 V		0.9		V

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