

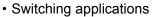
isc N-Channel MOSFET Transistor

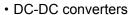
2SK1162

• FEATURES

- With TO-3PN packaging
- · Low on-resistance
- · Low drive current
- · No secondary breakdown
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operationz

APPLICATIONS





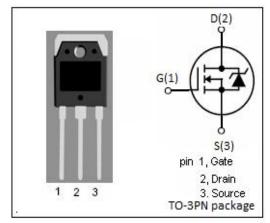
Uninterruptible power supply

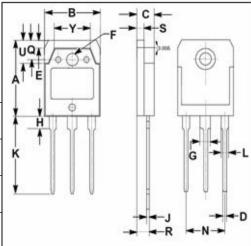
• ABSOLUTE MAXIMUM RATINGS(T_a=25 °C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	500	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	10	Α	
I _{DM}	Drain Current-Single Pulsed	30	Α	
P _D	Total Dissipation	100	W	
Tj	Operating Junction Temperature	-55~150	$^{\circ}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.83	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance	40	°C/W





	mm		
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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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	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±30V; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =5A		700	900	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±10	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 400V; V _{GS} = 0V;Tc=25°C			250	μА
V _{SDF}	Diode forward voltage	I _{SD} =10A, V _{GS} = 0 V		1.0		V

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