

isc N-Channel MOSFET Transistor

2SK1700

DESCRIPTION

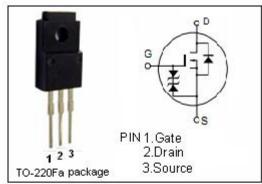
- Drain Current –I_D= 5A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 450V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

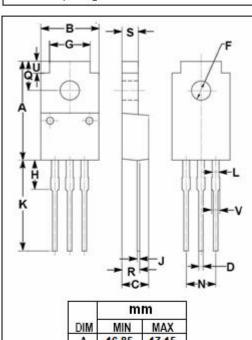
APPLICATIONS

- · High speed power switching.
- Low drive current.
- Suitable for motor control, switching regulator and DC – DC converter.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	450	V
V _{GS}	Gate-Source Voltage	٧	
I _D	Drain Current-continuous@ TC=25℃	Α	
P _{tot}	Total Dissipation@TC=25℃	2TC=25℃ 35	
T _j	Max. Operating Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$





	mm			
DIM	MIN	MAX		
Α	16.85	17.15		
В	9.54	10.10		
C	4.35	4.65		
D	0.75	0.90		
F	3.20	3.40		
G	6.90	7.20		
Н	3.80	4.20		
J	0.45	0.75		
K	13.35	13.80		
L	1.10	1.30		
N	4.98	5.18		
Q	4.85	5.15		
R	2.55	3.25		
S	2.70	2.90		
U	1.75	2.05		
V	1.30	1.50		



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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 = 10mA	450			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10 V _{GS} ; I _D =1mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D = 3A			1.8	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =450V; V _{GS} = 0			250	uA



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2