

isc N-Channel MOSFET Transistor

2SK1701

DESCRIPTION

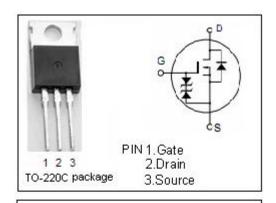
- Drain Current –I_D= 8A@ T_C=25℃
- Drain Source Voltage-
 - : V_{DSS}= 450V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

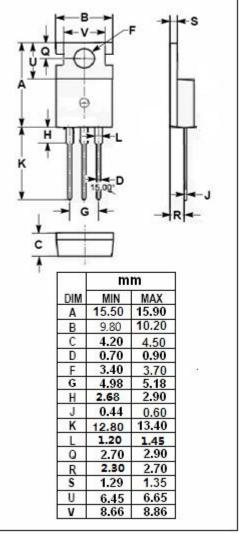
APPLICATIONS

- · 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	±30	V
I _D	Drain Current-continuous@ TC=25℃	8	Α
P _{tot}	Total Dissipation@TC=25℃	125	W
T _j	Max. Operating Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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• ELECTRICAL CHARACTERISTICS (T_C=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 = 5A			0.73	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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