

isc N-Channel MOSFET Transistor

2SK2180-01

DESCRIPTION

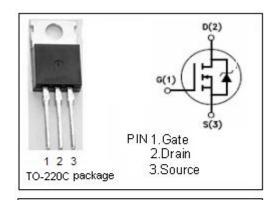
- Drain Current I_D= 3A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}= 500V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

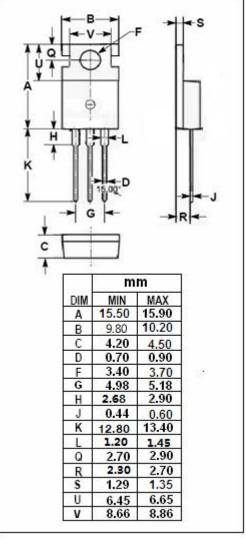


· General purpose power amplifier

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	500	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ TC=25℃	3	А
I _{D(puls)}	Pulse Drain Current	9	А
P _{tot}	Total Dissipation@T _C =25°C	40	W
T _j	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C





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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.3mA	2.5	3.0	3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1.5A		1.8	2.3	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0			250	μΑ
Ciss	Input Capacitance	V _{DS} =25V;		400		
Crss	Reverse Transfer Capacitance	V_{GS} =0V; f_T =1MHz		30		pF
Coss	Output Capacitance	i i†– nviriz		90		
ton	Turn-on Time	V _{GS} =10V;I _D =1.5A;		45	80	ns
toff	Turn-off Time	R _L =100 Ω		90	140	5

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