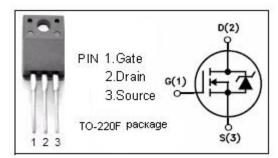


isc N-Channel MOSFET Transistor

2SK2182

DESCRIPTION

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

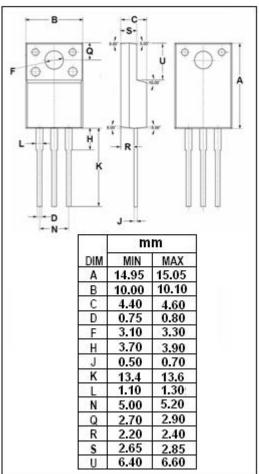


APPLICATIONS

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	urce Voltage ±30	
I _D	Drain Current-continuous@ TC=25℃	3	Α
I _{D(puls)}	Pulse Drain Current	9	Α
P _{tot}	Total Dissipation@T _C =25°C	25	W
T _j	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°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
V _{SD}	Forward On-Voltage	I _S =1.5A; V _{GS} =0			1.5	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} =10V;		400		
Crss	Reverse Transfer Capacitance	V_{GS} =0 V ; f_T =1 MHz		30		pF
Coss	Output Capacitance			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	

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