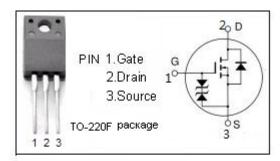


isc N-Channel MOSFET Transistor

2SK2108

DESCRIPTION

- Drain Current –I_D= 6A@ T_C=25 ℃
- · Drain Source Voltage-
 - : V_{DSS}= 250V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

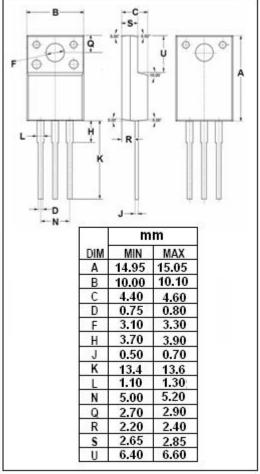


APPLICATIONS

Switching regulators

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	250	V
V _{GS}	Gate-Source Voltage	±30	
I _D	Drain Current-continuous@ TC=25℃	6	Α
I _{D(puls)}	Pulsed Drain Current	24	Α
P _{tot}	Total Dissipation@TC=25℃	25	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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isc N-Channel Mosfet Transistor

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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	250			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1mA	1.5		2.5	V
V _{SD}	Diode Forward On-voltage	I _S = 6A;V _{GS} = 0		1.0	1.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 3A			0.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±10	μA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0			100	μА
Ciss	Input Capacitance	V _{DS} =20V;		750		
Crss	Reverse Transfer Capacitance	V_{GS} =0 V ; f_T =1 MHz		50		pF
Coss	Output Capacitance			130		
tr	Rise Time	V _{GS} =10V;		19		
td(on)	Turn-on Delay Time	I _D =3A;		14		no
tf	Fall Time	V _{DD} =100V; R _L =33.3 Ω		70		ns
td(off)	Turn-off Delay Time			80		

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