

isc N-Channel MOSFET Transistor

2SK2408

DESCRIPTION

- Drain Current I_D= 7A@ 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

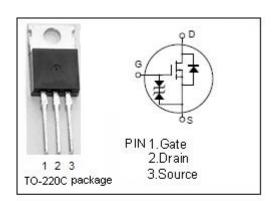
APPLICATIONS

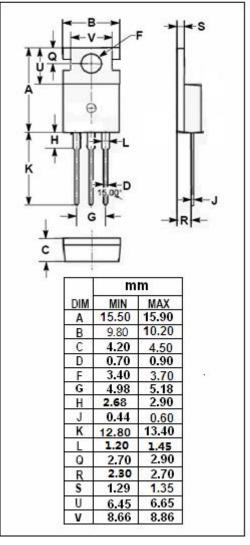
- Switching Regulators
- · DC-DC Converter,
- Motor Control



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℃	7	А
$I_{D(puls)}$	Pulsed Drain Current	28	А
P _{tot}	Total Dissipation@Tc=25℃	60	W
T _j	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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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 = 10mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1mA	1.5		3.5	V
V _{SD}	Diode Forward On-Voltage	I _S =7A ;V _{GS} = 0		0.9		V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 4A		0.7	0.9	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±10	μΑ
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 400V; V _{GS} = 0			250	μΑ
C _{iss}	Input Capacitance	V_{DS} =10V; V_{GS} =0V; f_T =1MHz		1100		pF
C _{rss}	Reverse Transfer Capacitance			50		
Coss	Output Capacitance			310		
t _r	Rise Time	V_{GS} =10 V ; I_{D} =4 A ; R_{L} =7.5 Ω		55		ns
t _{d(on)}	Turn-on Delay Time			15		
t _f	Fall Time			48		
$t_{\sf d(off)}$	Turn-off Delay Time			100		

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