

isc N-Channel MOSFET Transistor

2SK1608

DESCRIPTION

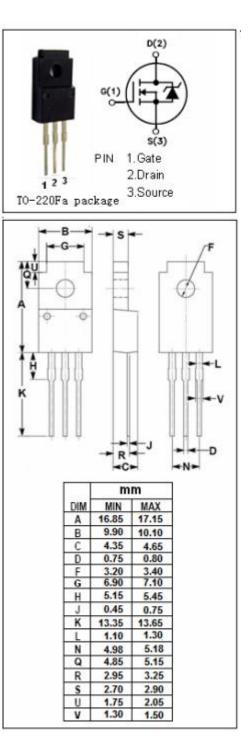
- Drain Current −I_D=5A@ T_C=25°C
- Drain Source Voltage-
- : V_{DSS}=500V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for high voltage, high speed power switching applications such as switching regulators, converters, solenoid and relay drivers.

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
ID	Drain Current-continuous@ TC=25°C	5	А
P _{tot}	Total Dissipation@TC=25°C	50	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	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} =25V; I _D =1mA	1.0		5.0	V
$R_{\text{DS(on)}}$	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =3A		1.35	1.70	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V;V _{DS} =0			±1	uA
Idss	Zero Gate Voltage Drain Current	V _{DS} =400V; V _{GS} = 0			100	uA
ton	Turn-on time	V _{GS} =10V;I _D =3A;R _L =50 Ω		60		ns
toff	Turn-off time			120		ns

• ELECTRICAL CHARACTERISTICS (Tc=25°C)



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