

isc N-Channel MOSFET Transistor

2SK2608

• FEATURES

- Static drain-source on-resistance:
 $R_{DS(on)} \leq 3.78\Omega$ (TYP)
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRIPTION

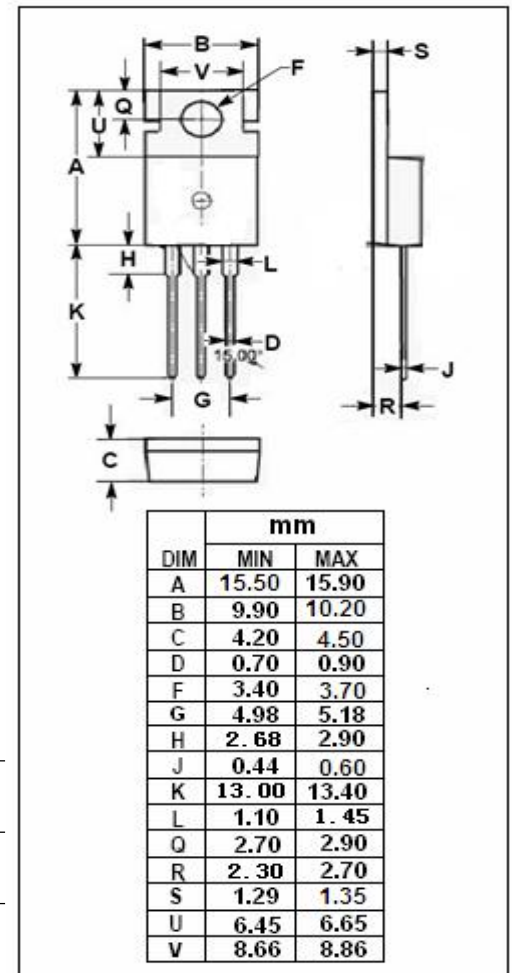
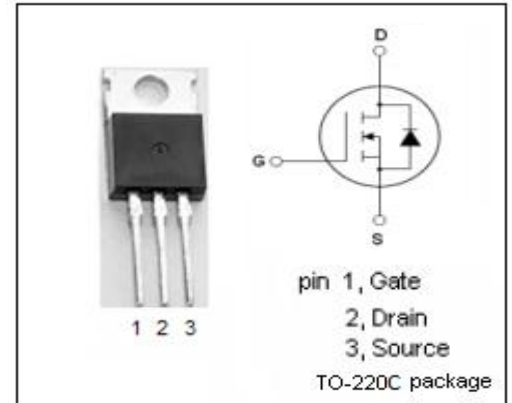
- Efficient and reliable device for use in a wide variety of applications

• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	900	V
V_{GS}	Gate-Source Voltage	± 30	V
I_D	Drain Current-Continuous	3	A
I_{DM}	Drain Current-Single Pulsed	9	A
P_D	Total Dissipation @ $T_c=25^\circ\text{C}$	100	W
T_j	Max. Operating Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	1.25	$^\circ\text{C/W}$
$R_{th(ch-a)}$	Channel-to-ambient thermal resistance	83.3	$^\circ\text{C/W}$



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ELECTRICAL CHARACTERISTICS

 $T_C=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V$; $I_D=10\text{mA}$	900			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D=1\text{mA}$	2		4	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10V$; $I_D=1.5A$			4.3	Ω
I_{GSS}	Gate-Source Leakage Current	$V_{GS}=\pm 30V$			10	μA
I_{DSS}	Drain-Source Leakage Current	$V_{DS}=720V$; $V_{GS}=0V$			100	μA
V_{SD}	Diode forward voltage	$I_F=3A$; $V_{GS}=0V$			1.9	V

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