

isc N-Channel MOSFET Transistor

2SK688

DESCRIPTION

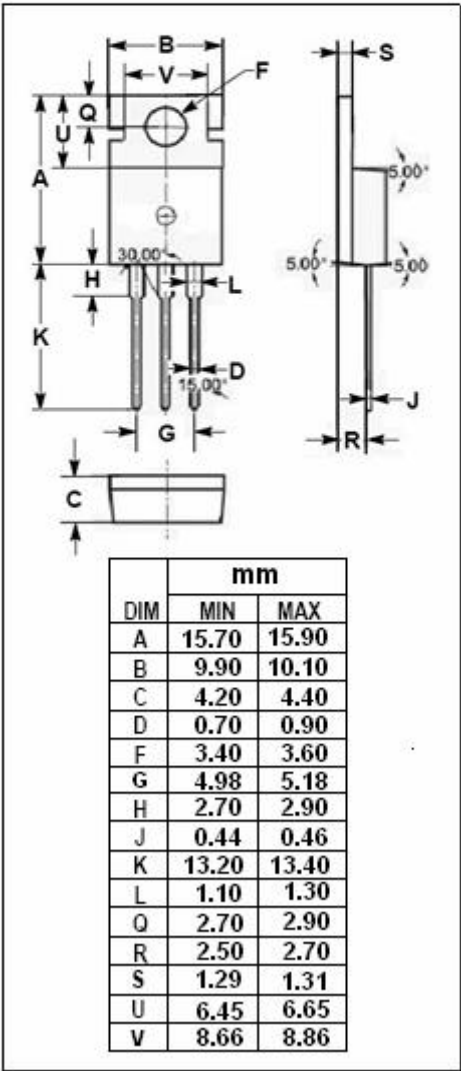
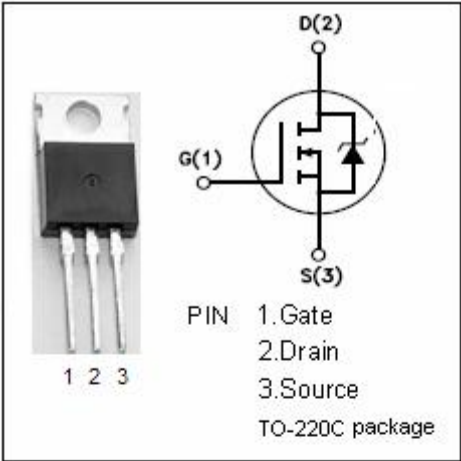
- Drain Current $-I_D=15A@ T_C=25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS}= 60V(Min)$
- Fast Switching Speed

APPLICATIONS

- High speed power switching

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

SYMBOL	ARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	60	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-continuous@ $TC=25^{\circ}C$	15	A
P_{tot}	Total Dissipation@ $TC=25^{\circ}C$	60	W
T_j	Max. Operating Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$



isc N-Channel Mosfet Transistor**2SK688****• ELECTRICAL CHARACTERISTICS (T_C=25°C)**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 1mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	1.5		4.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D = 8A		0.08	0.12	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =60V; V _{GS} = 0			100	uA
ton	Turn-on time	V _{GS} =10V; I _D =5A; R _L =6 Ω		90		ns
toff	Turn-off time			110		ns