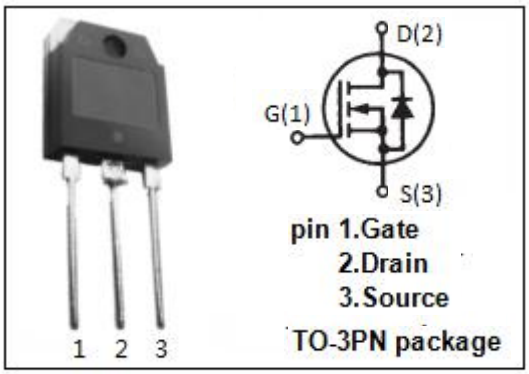
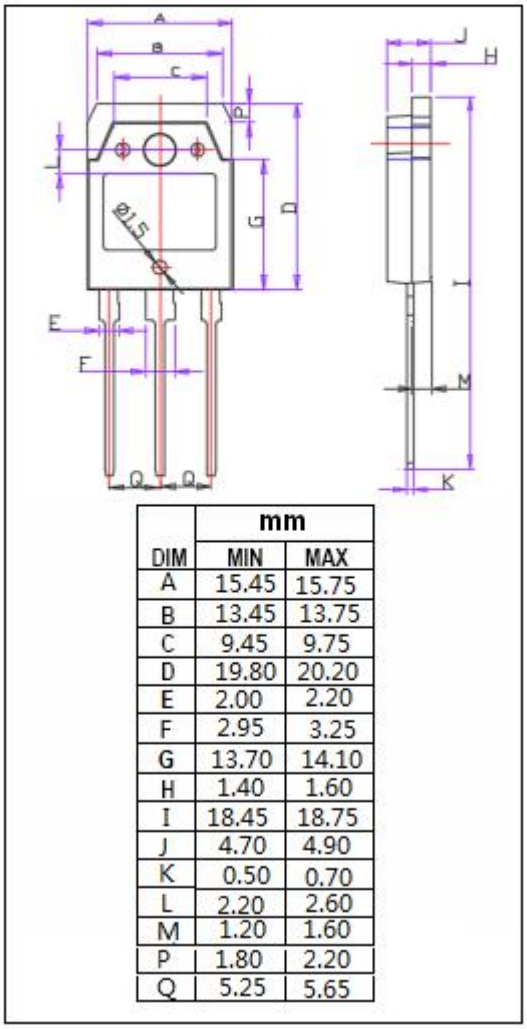
isc N-Channel MOSFET Transistor 2SK2652

- **FEATURES**
- Drain Source Voltage-
  : V_{DSS}= 900V(Min)
- Static Drain-Source On-Resistance
  : $R_{DS(on)}$ = 2.5Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

- Designed for use in switch mode power supplies and general purpose applications.



DIM	mm MIN	MAX
A	15.45	15.75
B	13.45	13.75
C	9.45	9.75
D	19.80	20.20
E	2.00	2.20
F	2.95	3.25
G	13.70	14.10
H	1.40	1.60
I	18.45	18.75
J	4.70	4.90
K	0.50	0.70
L	2.20	2.60
M	1.20	1.60
P	1.80	2.20
Q	5.25	5.65

• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	900	V
V_{GSS}	Gate-Source Voltage	±30	V
I_D	Drain Current-Continuous	6	A
I_{DM}	Drain Current-Single Pulsed	24	A
P_D	Total Dissipation	125	W
T_j	Operating Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature	-55~150	℃

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1	℃/W

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	V_{GS}=0V; I_D= 1mA	900			V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}=±30V; I_D= 1mA	3.5		4.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}= 10V; I_D=3A			2.5	Ω
I_{GSS}	Gate-Source Leakage Current	V_{GS}= ±30V;V_{DS}= 0V			±100	nA
I_{DSS}	Drain-Source Leakage Current	V_{DS}= 900V; V_{GS}= 0V;@Tc=25℃ Tc=125℃			500 1000	μA
V_{SDF}	Diode forward voltage	I_{SD}=3A, V_{GS} = 0 V			1	V

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