

isc N-Channel MOSFET Transistor
2SK1317
• FEATURES

- Drain Source Voltage-
: $V_{DSS} = 1500V$ (Min)
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 12 \Omega$ (Max)
- Suitable for switching regulator,
DC-DC converter and motor driver
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device
performance and reliable operation

• APPLICATIONS

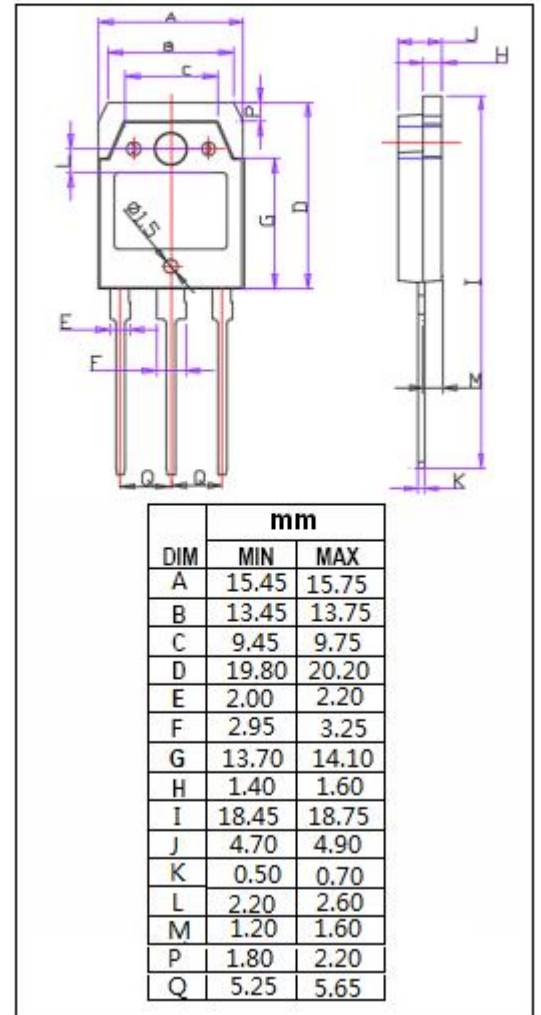
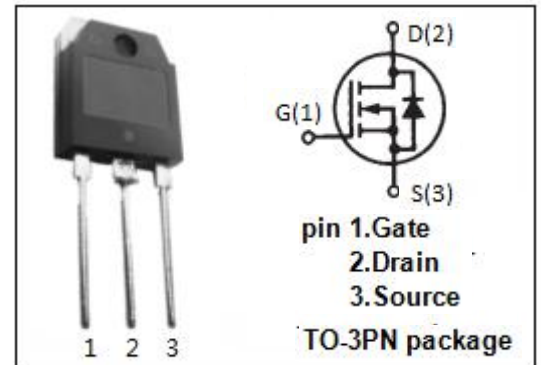
- High speed power switching

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	1500	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Drain Current-Continuous	2.5	A
I_{DM}	Drain Current-Single Plused	7	A
P_D	Total Dissipation @ $T_c=25^\circ C$	100	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance, Junction to Case	1.25	$^\circ C/W$



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• ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =250uA	1500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250uA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 15V; I _D = 2A			12	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 1500V; V _{GS} = 0			1	μA
V _{SD}	Diode Forward On-voltage	I _F = 2A; V _{GS} = 0			1.4	V

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