

isc N-Channel MOSFET Transistor

2SK2313

DESCRIPTION

- Drain Current - $I_D=60A@ TC=25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS}=60V(\text{Min})$
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

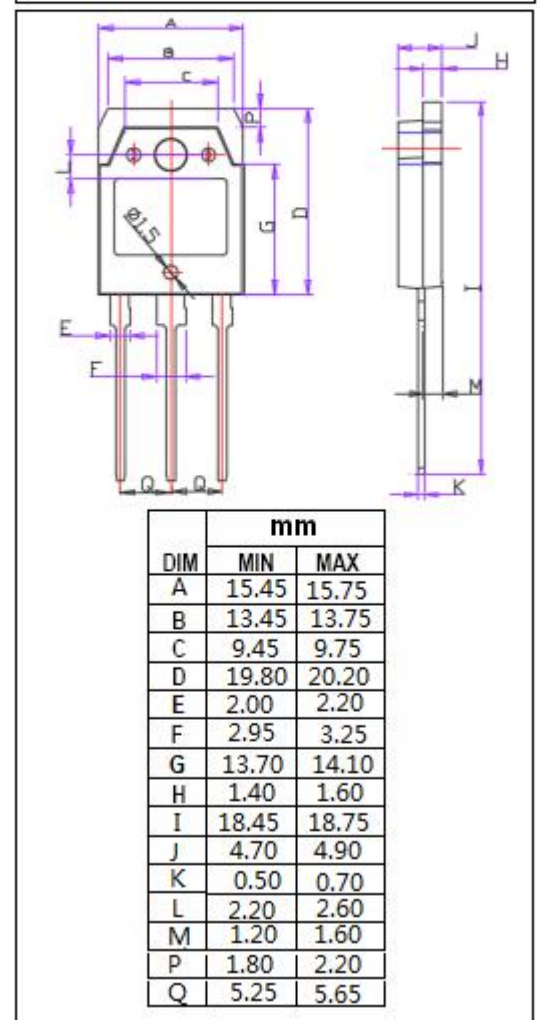
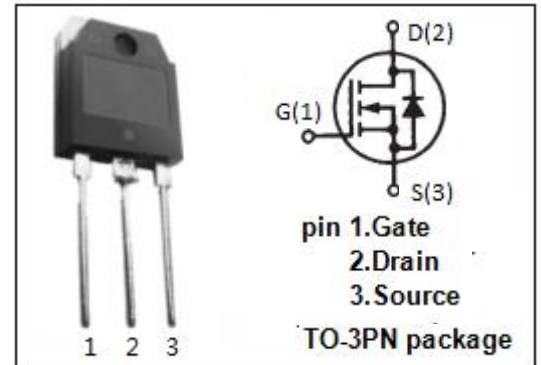
- Designed especially for low voltage,high speed applications,
- Chopper regulator,DC-DC converter and motor drive applications.

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@ $TC=25^{\circ}C$	60	A
P_{tot}	Total Dissipation@ $TC=25^{\circ}C$	150	W
T_j	Max. Operating Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	0.83	$^{\circ}C/W$



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• 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 = 10mA	60			V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} =V _{GS} , I _D =250μA	0.8		2	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D =30A			11	mΩ
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±16V; V _{DS} = 0			±10	μA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =60V; V _{GS} = 0			100	μA
V _{SD}	Diode Forward Voltage	I _S =30A; V _{GS} =0			1.2	V

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