

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK2313

DESCRIPTION

- Drain Current ID=60A@ TC=25℃
- Drain Source Voltage-: VDSS=60V(Min)
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

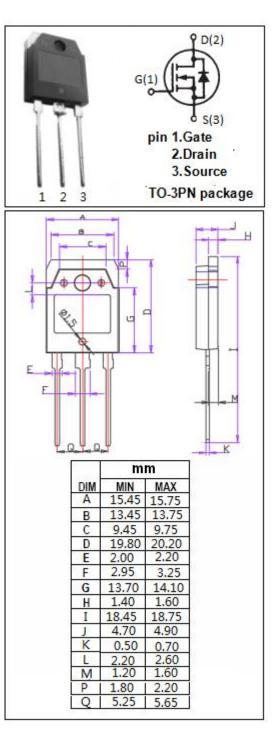
- Designed especially for low voltage, high speed applications,
- Chopper regulator, DC-DC converter and motor drive applications.

SYMBOL	ARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	60	V				
V_{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-continuous@ TC=25°C	60	А				
P _{tot}	Total Dissipation@TC=25°C	150	W				
Tj	Max. Operating Junction Temperature 150		°C				
T _{stg}	Storage Temperature Range	-55~150	°C				

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth j-c	Thermal Resistance, Junction to Case	0.83	°C/W





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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	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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