

isc N-Channel MOSFET Transistor

2SK2611

DESCRIPTION

- Drain Current –I_D=9A@ T_C=25℃
- · Drain Source Voltage-
 - : V_{DSS}= 900V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

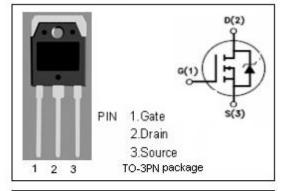
- low on-resistance.
- · High speed switching.
- No secondary breakdown.
- Suitable for switchingregulator, DC-DC control.

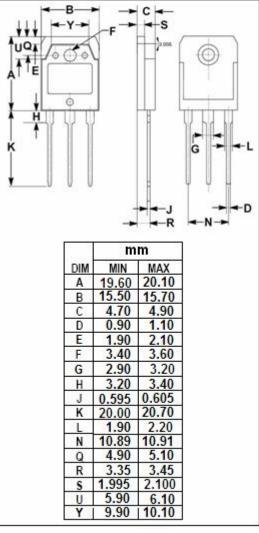
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	900	V	
V _{GS}	Gate-Source Voltage	±30	V	
Ι _D	Drain Current-continuous@ TC=25℃	9	Α	
I _{DM}	Drain Current-Single Plused 27		Α	
P _{tot}	Total Dissipation@TC=25℃	150	W	
T _j	Max. Operating Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	°C	
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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT	
R _{th j-c}	Thermal Resistance,Junction to Case	0.833	°C/W	
R _{th j-a}	Thermal Resistance,Junction to Ambient	50	°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	900			V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 1mA	2.0		4.0	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 4A			1.4	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V; V _{DS} = 0			±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =720V; V _{GS} = 0			100	uA
V _{SD}	Diode Forward Voltage	I _F = 9A; V _{GS} =0			1.9	V
Gfs	Forward Transconductance	V _{DS} = 15V; I _D =4A	3.0			S

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