

isc N-Channel MOSFET Transistor

2SK1629

ESCRIPTION

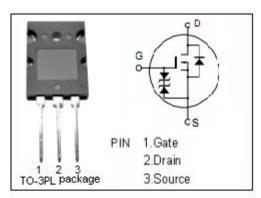
- Drain Current –I_D=30A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=500 (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

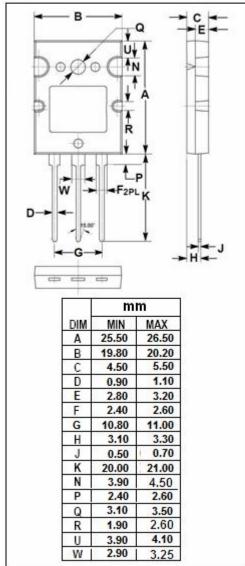
APPLICATIONS

• High current , high speed switching

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNI T	
V_{DSS}	Drain-Source Voltage (V _{GS} =0)	500	V	
V _{GS}	Gate-Source Voltage ±30			
I _D	Drain Current-continuous@ TC=25℃	А		
P _{tot}	Total Dissipation@TC=25°C 200		W	
Tj	Max. Operating Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	







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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 10mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =15A		0.22	0.27	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =400V; V _{GS} = 0			250	uA
V_{SD}	Diode Forward Voltage	I _F =30A; V _{GS} =0			1.1	V
tr	Rise time	V _{GS} =10V;I _D =15A;R _L =2Ω		140		ns
ton	Turn-on time			172		ns
tf	Fall time			100		ns
toff	Turn-off time			300		ns

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