

isc N-Channel MOSFET Transistor

2SK2149

DESCRIPTION

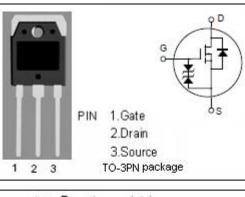
- Drain Current I_D = 10A@ T_C=25°C
- Drain Source Voltage-
- : V_{DSS}= 500V(Min)
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

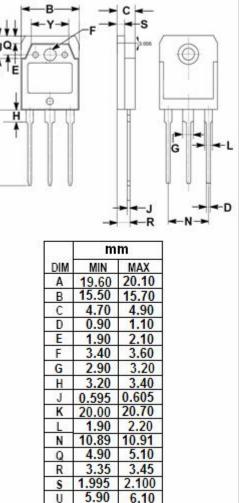
APPLICATIONS

- Switching regulators
- General purpose power amplifier

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	500	V
V _{GS}	Gate-Source Voltage	±30	V
ID	Drain Current-continuous@ TC=25℃	10	А
$I_{D(puls)}$	Pulsed Drain Current	30	А
P _{tot}	Total Dissipation@T _C =25℃	125	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C





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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	800			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =1mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1A			2.0	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 800V; V _{GS} = 0			500	μA



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