

isc N-Channel MOSFET Transistor

2SK1403

DESCRIPTION

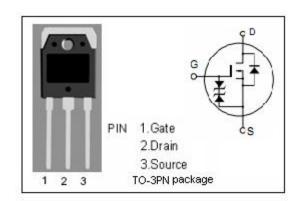
- Drain Current I_D= 8A@ T_C=25 ℃
- Drain Source Voltage-
 - : V_{DSS}= 600V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

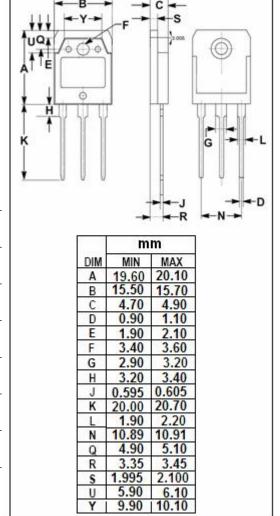


· Switching regulator and DC-DC converter

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	600	V
V_{GS}	Gate-Source Voltage	±30	V
l _D	Drain Current-continuous@ TC=25℃	8	А
P _{tot}	Total Dissipation@TC=25℃	100	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	\mathbb{C}







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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	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10 V; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =4A		0.9	1.3	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±10	μA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =500V; V _{GS} = 0			250	μA
V _{SD}	Diode Forward Voltage	I _S =8A; V _{GS} =0		0.95		V
t _r	Rise Time			50		
t _{d(on)}	Turn-on Delay Time	V _{es} =10V; I _D =4A;		15		
t _f	Fall Time	R _L =7.5 Ω		45		ns
t _{d(off)}	Turn-off Delay Time			105		

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