

isc N-Channel MOSFET Transistor

2SK1443

DESCRIPTION

- Drain Current –I_D=1A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 450V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

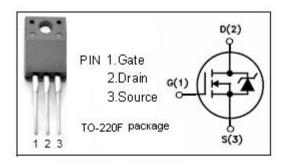


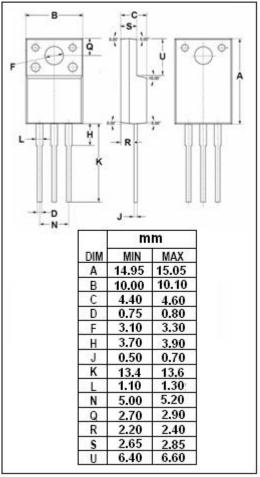
APPLICATIONS

· Designed for high voltage, high speed power switching



SYMBOL	ARAMETER	VALUE	UNIT
$V_{ t DSS}$	Drain-Source Voltage (V _{GS} =0)	450	V
V_{GS}	Gate-Source Voltage	±30	V
ID	Drain Current-continuous@ TC=25℃	1	А
P _{tot}	Total Dissipation@TC=25℃	20	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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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 = 1mA	450			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10 V _{GS} ; I _D =1mA	2.0		3.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =0.5A		3.5	4.5	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} =450V; V _{GS} = 0			1	mA
V _{SD}	Diode Forward Voltage	I _F =1A; V _{GS} =0			1.8	V
tr	Rise time	V _{GS} =10V;I _D =0.5A;R _L =50 Ω		9		ns
ton	Turn-on time			19		ns
tf	Fall time			45		ns
toff	Turn-off time			90		ns

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2