

isc N-Channel MOSFET Transistor

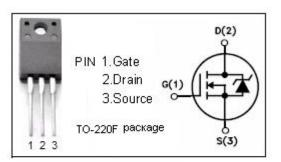
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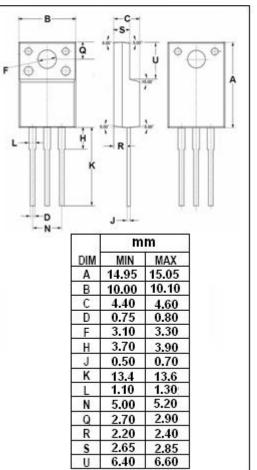
DESCRIPTION

- Drain Current –I_D=3A@ T_C=25 $^\circ\!\mathrm{C}$
- 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





ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	450	V
V _{GS}	Gate-Source Voltage	±30	V
ID	Drain Current-continuous@ TC=25°C	3	А
P _{tot}	Total Dissipation@TC=25℃	25	W
Tj	Max. Operating Junction Temperature	Temperature 150	
T _{stg}	Storage Temperature Range	-55~150	°C

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SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	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		2.0	2.6	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 =3A; V _{GS} =0			1.8	V
tr	Rise time	V _{GS} =10V;I _D =1.5A;R∟=50 Ω		20		ns
ton	Turn-on time			32		ns
tf	Fall time			35		ns
toff	Turn-off time			115		ns

• ELECTRICAL CHARACTERISTICS (Tc=25°C)

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