

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

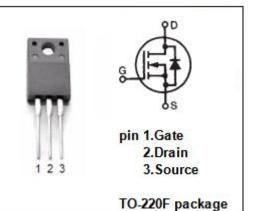
AOTF3N90

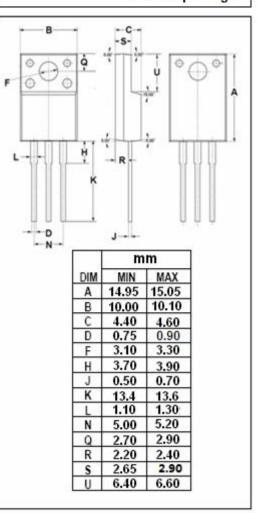
FEATURES

- Drain Current –I_D=2.4A@ T_C=25 $^\circ\!\!\!\mathrm{C}$
- Drain Source Voltage-
- : V_{DSS}=900V(Min)
- Static Drain-Source On-Resistance : R_{DS(on)} =6.7 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

• Designed for use in switch mode power supplies and general purpose applications.





ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	900	V				
V_{GS}	Gate-Source Voltage-Continuous	±30	V				
ID	Drain Current-Continuous	2.4	A				
I _{DM}	Drain Current-Single Pluse	6.7	A				
P _D	Total Dissipation @T _C =25℃	35	w				
TJ	Max. Operating Junction Temperature	-55~150	°C				
T _{stg}	Storage Temperature	-55~150	°C				

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.6	°C/W

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V(BR)DSS	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	900		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 5V; I _D = 0.25mA	3.6	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =1.5A		6.7	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =900V; V _{GS} = 0 V _{DS} =720V; V _{GS} = 0@T _J =125°C		1 10	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V



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