

isc N-Channel MOSFET Transistor

AOTF3N100

FEATURES

- Drain Current –I_D= 2.8A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 1000V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 6 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

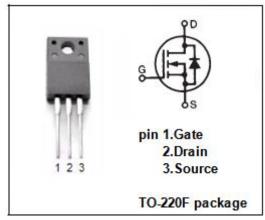
 Designed for use in switch mode power supplies and general purpose applications.

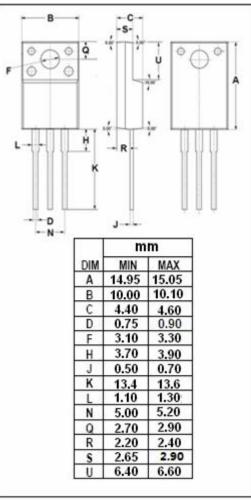
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage 1000			
V _{GS}	Gate-Source Voltage-Continuous	±30	V	
I _D	Drain Current-Continuous	2.8	Α	
I _{DM}	Drain Current-Single Pluse	10	А	
P _D	Total Dissipation @T _C =25℃	38	W	
TJ	Max. Operating Junction Temperature -55~150		$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~150		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.3	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	1000			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 5V; I _D = 0.25mA	3.3		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1.5A			6	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 1000V; V _{GS} = 0 V _{DS} = 800V; V _{GS} = 0@T _J = 55°C			1 10	μА
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0			1	V



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