

isc N-Channel MOSFET Transistor

AOT3N100

FEATURES

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

DESCRIPTION

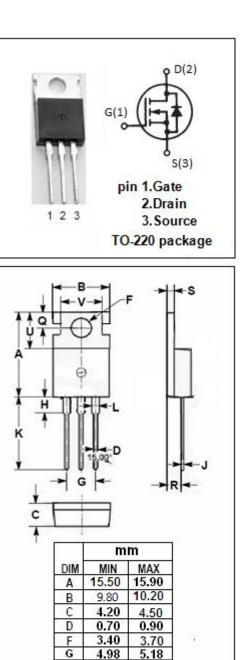
• Designed for use in switch mode power supplies and general purpose applications.

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SYMBOL	PARAMETER VALUE		UNIT					
V _{DSS}	Drain-Source Voltage	1000	v					
V _{GS}	Gate-Source Voltage-Continuous ±30		V					
ID	Drain Current-Continuous 2.8		A					
I _{DM}	Drain Current-Single Pluse 10		A					
PD	Total Dissipation @T _c =25℃	132	w					
TJ	Max. Operating Junction Temperature	-55~150	°C					
T _{stg}	Storage Temperature	-55~150	°C					

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.95	°C/W



2.90

0.60

13.40

1.45

2.90

2.70

1.35

6.65

8.86

Н

1

K

T

Q

R

s

U

v

2.68

0.44

12.80

1.20

2.70

2.30

1.29

6.45

8.66



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	МАХ	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
$R_{\text{DS(on)}}$	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
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 1000V; V _{GS} = 0 V _{DS} = 800V; V _{GS} = 0@T _J = 55℃			1 10	μA
V_{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0			1	V



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