

isc N-Channel MOSFET Transistor

AOI2N60A

FEATURES

- Drain Current -I_D= 2A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=600V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ =4.7 Ω (Max)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

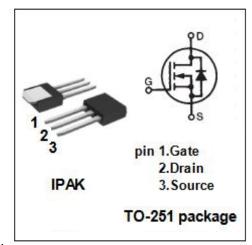
 Designed for use in switch mode power supplies and general purpose applications.

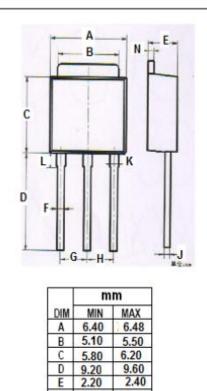
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	2	А
I _{DM}	Drain Current-Single Pluse	6	А
P _D	Total Dissipation @T _C =25℃	57	W
TJ	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature -55~150		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.2	°C/W





	0.7223371	
DIM	MIN	MAX
Α	6.40	6.48
В	5.10	5.50
C	5.80	6.20
D	9.20	9.60
E	2.20	2.40
F	0.50	0.70
G	2.09	2.49
Н	2.09	2.49
J	0.40	0.60
K	0.70	0.90
L	1.60	2.00
N	0.40	0.60



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 5V; I _D = 0.25mA	3.4	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =1A		4.7	Ω
Igss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
l _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =600V; V _{GS} = 0 V _{DS} =480V; V _{GS} = 0@T _J =125°C		1 10	μА
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1	V



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