

isc N-Channel MOSFET Transistor

AOI7N60

FEATURES

- Drain Current –I_D= 7.0A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=600V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} =1.3 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

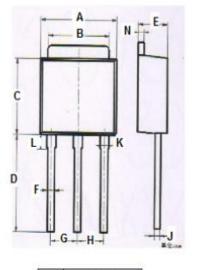
DESCRIPTION

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

SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	600	V			
V _{GS}	Gate-Source Voltage-Continuous	±30	V			
ID	Drain Current-Continuous	7.0	A			
I _{DM}	Drain Current-Single Pluse	24	A			
P _D	Total Dissipation @T _c =25℃	178	W			
TJ	Max. Operating Junction Temperature -50~150		°C			
T _{stg}	Storage Temperature	-50~150	°C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

PAK 3.Source TO-251 package



	m	m
DIM	MIN	MAX
Α	6.40	6.48
В	5.10	5.50
С	5.80	6.20
D	9.20	9.60
E	2.20	2.40
F	0.50	0.70
G	2.09	2.49
H	2.09	2.49
J	0.40	0.60
Κ	0.70	0.90
L	1.60	2.00
N	0.40	0.60

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.7	°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	600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	3.3	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =3.5A		1.3	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} =0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =600V; V _{GS} = 0 V _{DS} =480V; 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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