

isc N-Channel MOSFET Transistor

AOD9T40P

FEATURES

- Drain Current –I_D= 6.6A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=400V(Min)
- Static Drain-Source On-Resistance : R_{DS(on)} =0.8 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

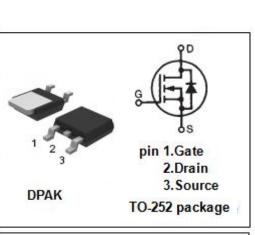
• Designed for use in switch mode power supplies and general purpose applications.

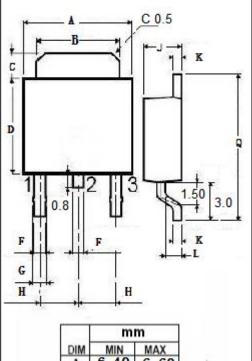
ADSOLUTE WAATWOW RATINGS(Ta=25 C)					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	400	V		
V _{GS}	Gate-Source Voltage-Continuous	±30	V		
I _D	Drain Current-Continuous	6.6	A		
I _{DM}	Drain Current-Single Pluse	26	A		
P _D	Total Dissipation @T _c =25℃	83	W		
TJ	Max. Operating Junction Temperature -55~1		°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	1.5	°C/W





DIM	MIN	MAX
Α	6.40	6.60
В	5.20	5.40
С	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
Н	2.10	2.50
J	2.10	2.40
к	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	400		V
V _{GS(th)}	Gate Threshold Voltage V _{DS} = V _{GS} ; I _D = 0.25mA		3	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =4A		0.8	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =400V; V _{GS} = 0 V _{DS} =320V; V _{GS} = 0@T _J =125℃		1 10	μA
V _{SD}	Forward On-Voltage	I _S = 1A; V _{GS} = 0		1.0	V



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