

FEATURES:

7PIN SIP Package

High Efficiency up to 82%

Output Continuous Short Circuit Protection

Unregulated Output Types

Internal SMD Construction

Industry Standard Pinout Operating Temperature: -40°C TO +105°C

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified						
Part Number	Output Voltage	Output Current	Ripple & Noise		Efficiency	Package Style
	Vdc	mA	Typ(mVp-p)	Max(mVp-p)	%Typ	
AS1A-05S05H3C	5	200	60	100	80	H
AS1A-05S09H3C	9	112	60	100	80	H
AS1A-05S12H3C	12	84	60	100	80	H
AS1A-05S15H3C	15	67	60	100	80	H
AS1A-12S05H3C	5	200	60	100	80	H
AS1A-12S09H3C	9	112	60	100	80	H
AS1A-12S12H3C	12	84	60	100	82	H
AS1A-12S15H3C	15	67	60	100	81	H
AS1A-05S05G3C	5	200	60	100	78	G
AS1A-05S09G3C	9	112	60	100	79	G
AS1A-05S12G3C	12	84	60	100	79	G
AS1A-05S15G3C	15	67	60	100	79	G
AS1A-24S05G3C	5	200	60	100	77	G
AS1A-24S09G3C	9	112	60	100	79	G
AS1A-24S12G3C	12	84	60	100	79	G
AS1A-24S15G3C	15	67	60	100	79	G
AS1A-24S24G3C	24	42	60	100	81	G
AS1A-05D05H3C	±5	±100	60	100	80	H
AS1A-05D09H3C	±9	±56	60	100	80	H
AS1A-05D12H3C	±12	±42	60	100	80	H
AS1A-05D15H3C	±15	±34	60	100	80	H
AS1A-12D05H3C	±5	±100	60	100	80	H
AS1A-12D09H3C	±9	±56	60	100	80	H
AS1A-12D12H3C	±12	±42	60	100	82	H
AS1A-12D15H3C	±15	±34	60	100	81	H
AS1A-15D05G3C	±5	±100	60	100	78	G
AS1A-15D09G3C	±9	±56	60	100	78	G
AS1A-15D12G3C	±12	±42	60	100	78	G
AS1A-15D15G3C	±15	±34	60	100	78	G
AS1A-24D05G3C	±5	±100	60	100	78	G
AS1A-24D09G3C	±9	±56	60	100	79	G
AS1A-24D12G3C	±12	±42	60	100	79	G
AS1A-24D15G3C	±15	±34	60	100	78	G

Input Specifications						
Parameters	Conditions	Min	Typ	Max	Units	
Voltage Tolerance	Vo, Io Nom			±10	%	
Filter	Capacitor					

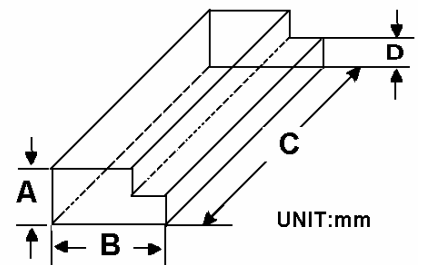
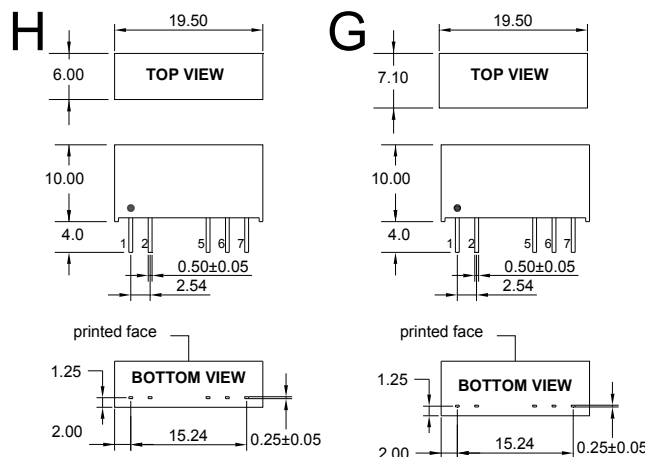
Output Specifications						
Parameters	Conditions	Min	Typ	Max	Units	
Voltage Tolerance	100% full load			±5	%	
Short Circuit Protection	Continuous					
Line Regulation	For 1.0% OF Vin		1.2		%	
Load Regulation	5V,9V (10% To 100% F.L)			15	%	
Load Regulation	12~24V (10% To 100% F.L)			10	%	
Load Regulation	±5V,±9V (10% To 100% F.L)			15	%	
Load Regulation	±12~±24V (10% To 100% F.L)			10	%	

General Specifications					
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load,nominal input		100		KHz
Operating Temperature		-40		+105	°C
Storage Temperature		-55		+125	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F@25°C	3500000			Hours
Weight	Package H or Package G		2.1 or 2.7		g
Dimensions	Package H or Package G			19.5x6.0x10.0 or 19.5x7.1x10.0	mm

Temperature Derating Graph	Part Number
	<p>AS1A - 05 D 05 G 3 C</p> <p>1 2 3 4 5 6 7</p> <p>1:Series 2:Input Voltage 3:(D) Dual (S) Single Output 4.Output voltage 5:Case 6.3000Vdc Isolation 7. Short Circuit Protection Continuous</p>

Recommended Test Circuit	
<p>5V :Cin 4.7uF,25V 5V :Cout 10uF,25V 12V:Cin 2.2uF,25V 9V :Cout 4.7uF,25V 15V:Cin 1uF,50V 12V:Cout 2.2uF,25V 24V:Cin 1uF,50V 15V:Cout 1uF,50V 24V:Cout 1uF,50V</p>	<p>5V :Cin 4.7uF,25V 5V :Cout 10uF,25V 12V:Cin 2.2uF,25V 9V :Cout 4.7uF,25V 15V:Cin 1uF,50V 12V:Cout 2.2uF,25V 24V:Cin 1uF,50V 15V:Cout 1uF,50V</p>

Markings and dimensions Packaging



UNIT:mm Unless otherwise specified,all tolerances are ±0.25

PIN Connection					
PIN	1	2	5	6	7
Single	+Vin	-Vin	-Vout	No Pin	+Vout
Dual	+Vin	-Vin	-Vout	Com	+Vout

Size(mm)			
A	B	C	D
9.5	16.5	522	5.0