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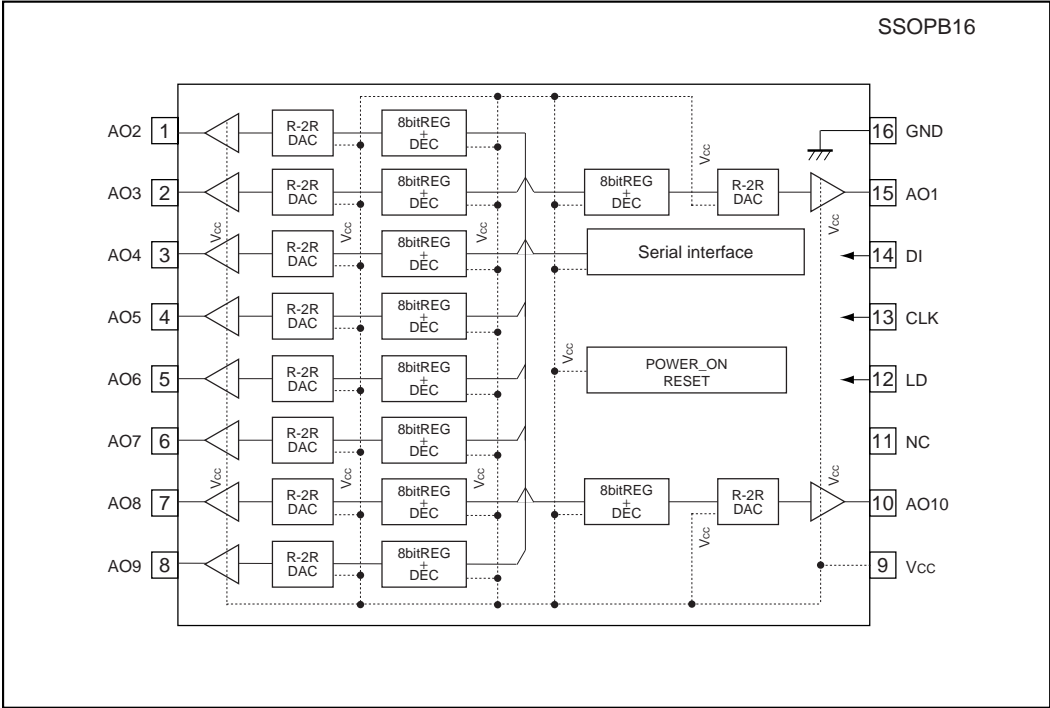# Read Statement

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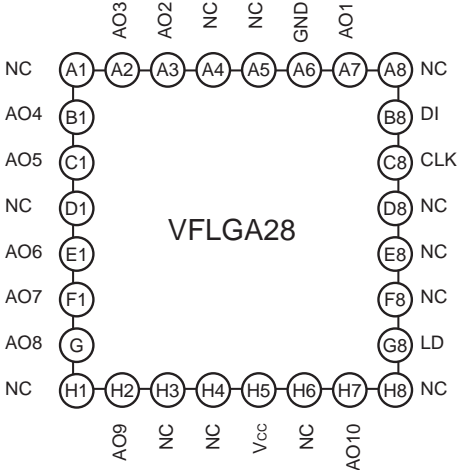4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets".

Standard IC

8bit 10ch D/A converter

BH2223FV/GLU

BH2223FV/GLU is an 8bit D/A converter for electronic adjustment. The 10-channel DC output voltage can be independently controlled by three-wire serial interface from micro-controller. The D/A converter can generate without loss by Rail-to-Rail output within the setting voltage. The built-in power on reset circuit keeps the output state Low after the power is on and prevents the unstable output state.

●**Applications**

The voltage adjustment for DVC, DSC etc.

●**Features**

1) 8bit 10-channel D/A converters adopting R-2R system.
2) 3-wire 12-bit serial interface.
3) POWER ON RESET circuit.
4) The full scale output voltage range : 2.7V to 5.5V.
5) SSOPB16/VFLGA28 package.

●**External dimensions** (Unit : mm)

SSOP-B16

VFLGA28

●**Absolute maximum ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	−0.3 to +7.0	V
Maximum output voltage	VIN	−0.3 to Vcc	V
Storage temperature	Tstg	−55 to +125	°C
Power dissipation(SSOPB16/VFLGA28)	Pd	400/300 *	mW

∗Reduced by 4mW/3mW for each increase in Ta of 1°C over 25°C.
◎This product is not designed for protection against radioactive rays.

●**Recommended operating conditions** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Vcc supply voltage	Vcc	2.7	–	5.5	V
Analog output source current	IOL	–	–	1.0	mA
Analog output sink current	IOH	–	–	1.0	mA
Operating temperature range	Topr	−20	–	85	°C
Clock frequency	FSCLK	–	1.0	–	MHz
Limit load capacitance	CL	–	–	0.1	μF

ROHM

Standard IC

●**Block diagram**

●**Pin descriptions**

Pin No.		Pin name	In / Out	Functions
SSOPB16	VFLGA28			
1	A3	AO2	OUT	Analog output pins
2	A2	AO3	OUT	
-	A1	NC	-	NC
3	B1	AO4	OUT	Analog output pins
4	C1	AO5	OUT	
-	D1	NC	-	NC
5	E1	AO6	OUT	Analog output pins
6	F1	AO7	OUT	
7	G1	AO8	OUT	
-	H1	NC	-	NC
8	H2	AO9	OUT	Analog output pins
-	H3	NC	-	
-	H4	NC	-	
9	H5	Vcc	-	Power supply pin
-	H6	NC	-	NC
10	H7	AO10	OUT	Analog output pins
11	H8	NC	-	NC
12	G8	LD	IN	Serial Load input pin
-	F8	NC	-	NC
-	E8	NC	-	
-	D8	NC	-	
13	C8	CLK	IN	Serial Clock input pin
14	B8	DI	IN	Serial Data input pin
-	A8	NC	-	NC
15	A7	AO1	OUT	Analog output pins
16	A6	GND	-	Common GND pin
-	A5	NC	-	NC
-	A4	NC	-	

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The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

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