查询BH76906GU供应商

Structure

RAHF

Silicon Monolithic Integrated Circuit

Product name

Low voltage operation video driver with LPF

Туре

Function

BH76906GU

Outer dimensions

• Built in 6dB AMP.

Fig.1 VCSP85H1

- Built in standby function
- Built in LPF (8 order) (f=4.5MHz)
- No output coupling capacitor required

※ Radiation resistance is not included in the design.

■Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	Vcc	3.55	V
Power dissipation	Pd	580	mW
Operating temperature	Topr	-40~+85	°C
Storage temperature	Tstg	-55~+125	S°

* In case mounting the ROHM standard application board (50mm × 58mm × 1.6mm)

* Reduced by 5.8 mW/°C at 25°C or higher.

■Operating range (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Supply voltage	Vcc	2.5	3.0	3.45	V



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Electrical characteristics	[Unless otherwise noted, Ta=25°C, VCC=3V]	
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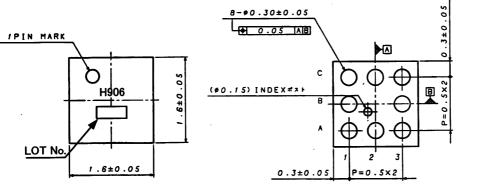
Parameter		Symbol Limits		Unit	conditions			
	ter	Symbol	Min.	Тур.	Max.	Unit	conditions	
Oinevit evenent	ACTIVE	Icc ₁	-	15	25	mA	No signal	
Circuit current	STANDBY	ICC ₂	—	0.0	2	μA	Standby mode	
Voltage gain		Gv	+5.5	+6.0	+6.5	dB	Vin=100KHz,1.0Vpp	
Maximum output level		V _{omv}	4.5	5.2	—	Vpp	f=10KHz、THD=1%	
Frequency characteristics	1	G _{f1}	-0.95	-0.2	0.2	dB	Vin=1.0Vpp f=4.5MHz/100KHz	
	2	G _{r2}	-5.0	-1.5	-0.5	dB	Vin=1.0Vpp f=8.0MHz/100KHz	
	3	G _{f3}	-	-26	-18	dB	Vin=1.0Vpp f=18MHz/100KHz	
Differential Gain		D _G	-	0.5	3.0	%	VIN= 1.0Vpp Standard stair step signal	
Differential Phase	ntial Phase		-	1.0	3.0	deg	VIN= 1.0Vpp Standard stair step signal	
Output pin source current		l _{extin}	15	30	_	mA	Add 4.5V to Output pin through 150Ω	
Output DC offset		V _{off}	-50	0	50	mV	No signal Voff=(Vout pin voltage)÷2	
Standby SW	High Level	V _{thH}	1.2	_	V _{cc}	v	ACTIVE mode	
Change Voltage	Low Level	V _{thL}	0	_	0.45	v	STANDBY mode	
Standby SW Input Current High Level		I _{thH}	35	45	60	μA	.3.0V is applied to B3	
Input Impedance		R _{in}	105	150	195	kΩ	1.0V is applied to A3 Input current measurement	

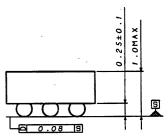
Control pin settings

Parameter	Status	Operational mode
STANDBY (B3)	Н	ACTIVE
	L	
	OPEN	STANDBY

rohm

Outer dimensions • PIN arrangements





⁽UNIT: mm)

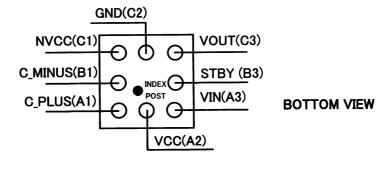
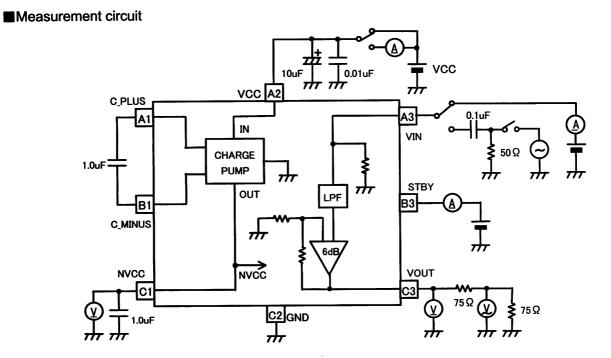
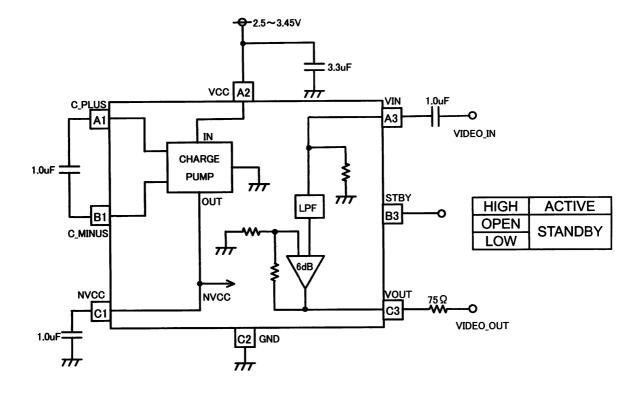


Fig.1



* Measurement circuit is intended for shipment inspections, and differs from application circuit.

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Cautions on use

(1) Layout of decoupling capacitor

As the wiring length of decoupling capacitor between VCC terminal (A2) and GND terminal (C2) becomes longer, the noise quality becomes worse. Make an enough consideration about the layout of decoupling capacitor.

(2) Absolute maximum ratings

If applied voltage, operating temperature range, or other absolute maximum ratings are exceeded, the LSI may be damaged. Do not apply voltages or temperatures that exceed the absolute maximum ratings. If you think of a case in which absolute maximum ratings are exceeded, enforce fuses or other physical safety measures and investigate how not to apply the conditions under which absolute maximum ratings are exceeded to LSI.

(3) Operation in strong magnetic fields Adequately evaluate use in a strong magnetic field, since there is a possibility of malfunction.

Appendix

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