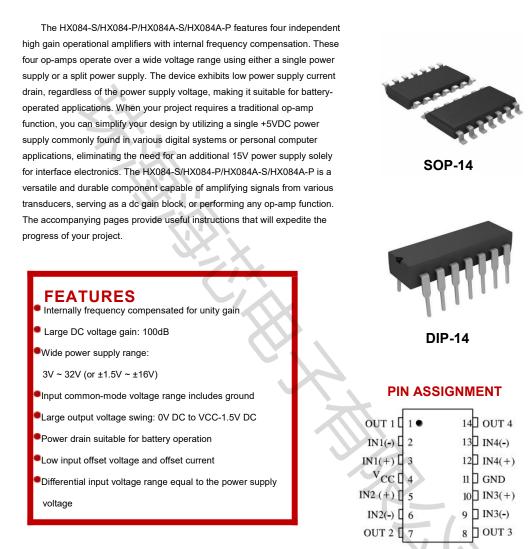
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HX084-S/HX084-P/HX084A-S/HX084A-P Low Power Quad Operational Amplifier



Product Inf	ormation			
	Package Information	temperature	Orchestration	quantity
HX084-S	SOP-14	0°C~70°C	Taping	2500
HX084-P	DIP-14	0°C~70°C	Taping	1000
HX084A-S	SOP-14	-40°C~85°C	Taping	2500
HX084A-P	DIP-14	-40°C~85°C	Taping	1000

RECOM	MENDED OPERATING CONDITIONS			
Symbol	Parameter	Min	Max	Unit
V _{CC}	DC Supply Voltage	±2.5 or 5.0	±15 or 30	V
T _A	Operating Temperature, All Package Types	-40	+105	°C

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MA	XIMUM RATINGS		
Symbol	Parameter	Value	Unit
Vcc	Power Supply Voltages Single Supply Split Supplies	32±16	V
V _{IDR}	Input Differential Voltage Range a	±32	V
VICR	Input Common Mode Voltage Range	-0.3 to 32	V
I _{SC}	Output Short Circuit Duration	Continuous	
TJ	Junction Temperature	150	°C
Tstg	Storage Temperature Plastic Packages	-55 to +125	°C
I _{IN}	Input Current, per pin b	50	mA
TL	Lead Temperature, 1mm from Case for 10 Seconds	260	°C

Notes

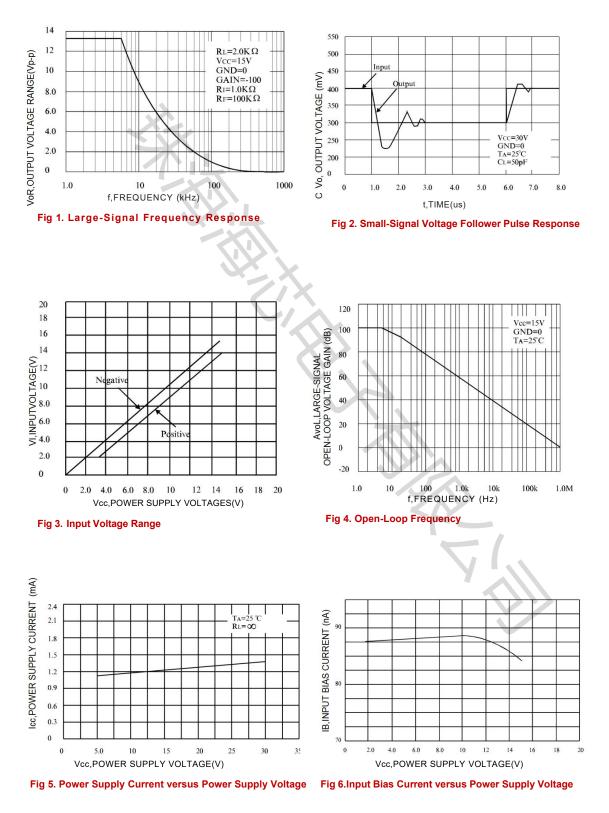
a. Split Power Supplies.b. VIN<-0.3V. This input current will only exist when voltage at any of the input leads is driven negative.

DC EL	ECTRICAL CHARACTERIS	TICS (TA=-40 to +105°	C)			
			Guara	anteed	Limit	
Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
VIO	Maximum Input Offset Voltage	VO=1.4V VCC=5.0-			7.0	mV
ΔVΙΟ/ΔΤ	Input Offset Voltage	RS=0Ω, VCC=30V		7.0		µV/°C
IIO	Maximum Input Offset Current	VCC=5.0V			150	nA
ΔΙΙΟ/ΔΤ	Input Offset Current Drift	RS=0Ω, VCC=30V		10		pA/°C
lib	Maximum Input Bias Current	VCC=5.0V			500	nA
VICR	Input Common Mode Voltage Range	VCC=30V	0		28	V
ICC	Maximum Power Supply Current	RL=∞,VCC=30V,V0=0V			3	mA
		RL=∞,VCC=5V,V0=0V			1.2	
AVOL	Minimum Large Signal	VCC=15V, RL≥2KΩ	15			V/mV
	Open-Loop Voltage Gain		25a			
VOH	Minimum Output High- Level Voltage	VCC=30V,RL=2KΩ	26			V
	Swing	VCC=30V,RL=10KΩ	27			
VOL	Maximum Output Low- Level Voltage	VCC=5V,RL=10KΩ			20	mV
CMR	Common Mode	VCC=30V, RS=10KΩ	65a			dB
PSR	Power Supply Rejection	VCC=30V	65*	\sim		dB
CS	Channel Separation	f=1KHz to 20KHz,VCC=30V	- 120a			dB
ISC	Maximum Output Short Circuit to GND	VCC=5.0V			60a	mA
Isource	Minimum Output Source Current	VIN+=1V, VIN-=0V,	20		50	mA
Isink	Minimum Output Sink Current	VIN+=0V, VIN-=1V,	5			mA
VIDR	Differential Input Voltage Range	All VIN≥GND or V-Supply (if used)			VCC _a	V

Notes a. =@25°C

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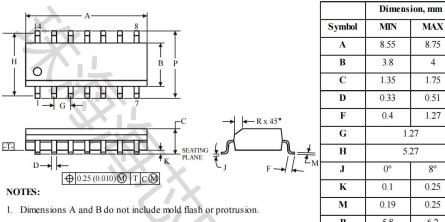




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Package Information

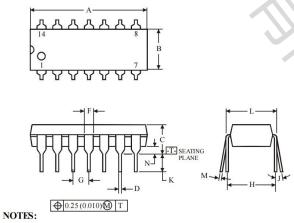
SOP14 (Package Outline Dimensions)



2. Maximum mold flash or protrusion 0.15 mm (0.006) per side for A; for B - 0.25 mm (0.010) per side.

	U	1.	21
+	Н	5.	27
- ^M	J	0°	8°
	K	0.1	0.25
	Μ	0.19	0.25
	Р	5.8	6.2
	R	0.25	0.5

DIP14 (Package Outline Dimensions)



1. Dimensions "A", "B" do not include mold flash or protrusions. Maximum mold flash or protrusions 0.25 mm (0.010) per side.

	Dimens	ion, mm
Symbol	MIN	MAX
А	18.67	19.69
В	6.1	7.11
С		5.33
D	0.36	0.56
F	1.14	1.78
G	2.	54
Н	7.	62
J	0°	10°
K	2.92	3.81
L	7.62	8.26
М	0.2	0.36
Ν	0.38	

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