

Pin Descriptions

Pin No.	Pin name	Pin No.	Pin name
1	Ch.1 output	8	Ch.3 output
2	Ch.1 inverting input	9	Ch.3 inverting input
3	Ch.1 non inverting input	10	Ch.3 non inverting input
4	V _{CC}	11	GND (V _{EE})
5	Ch.2 non inverting input	12	Ch.4 non inverting input
6	Ch.2 inverting input	13	Ch.4 inverting input
7	Ch.2 output	14	Ch.4 output

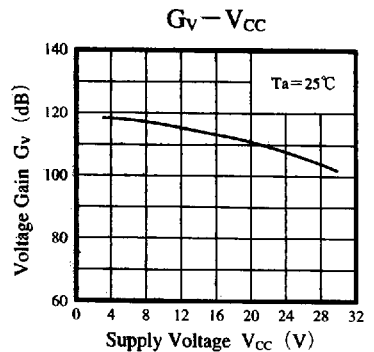
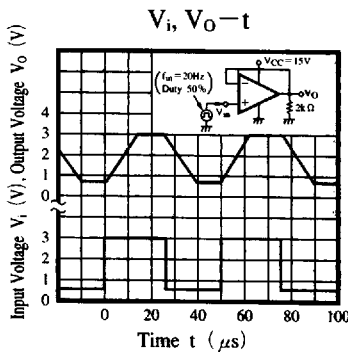
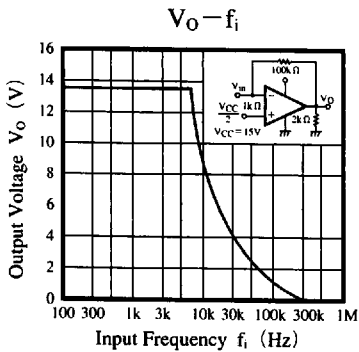
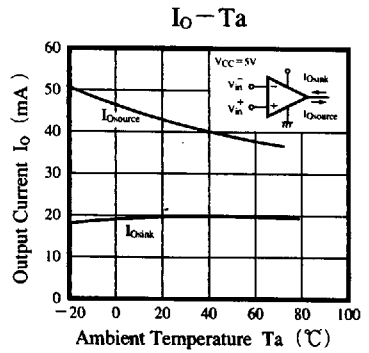
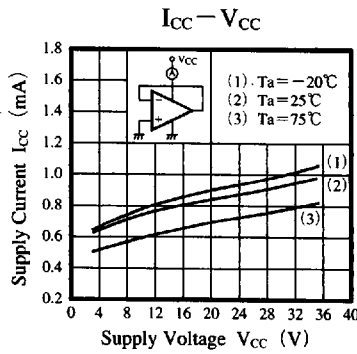
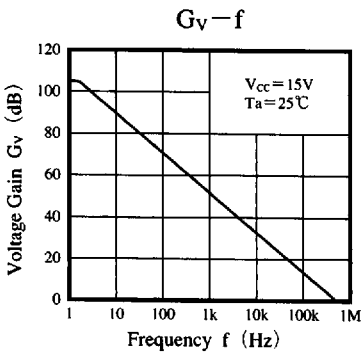
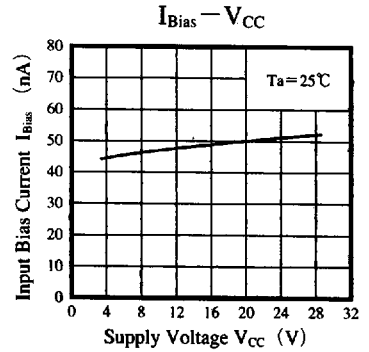
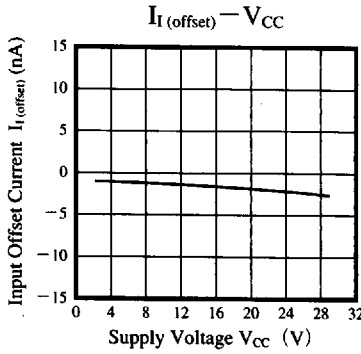
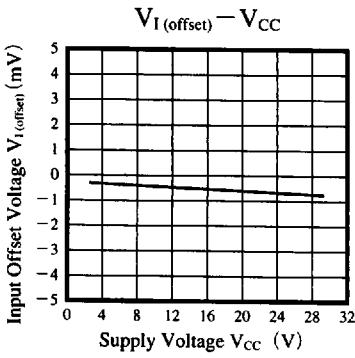
Absolute Maximum Ratings (T_a=25°C)

Parameter		Symbol	Rating	Unit
Voltage	Supply voltage	V _{CC}	32	V
	Differential input voltage	V _{ID}	32	V
	Common-mode input voltage	V _{ICM}	-0.3 to 32	V
	Output voltage	V _O	24	V
Power dissipation	AN1324 (AN6564)	P _D	570	mW
	AN1324NS (AN6564NS)		380	
Operating ambient temperature		T _{opr}	-20 to +75	°C
Storage temperature	AN1324 (AN6564)	T _{stg}	-55 to +150	°C
	AN1324NS (AN6564NS)		-55 to +125	

Electrical Characteristics (V_{CC}=5V, T_a=25°C)

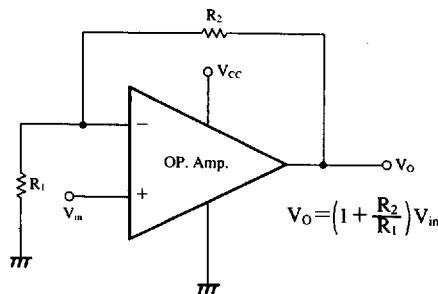
Parameter	Symbol	Condition	min	typ	max	Unit
Input offset voltage	V _{I(offset)}	R _S =50Ω	—	2	7	mV
Input bias current	I _{Bias}		—	—	500	nA
Input offset current	I _{IO}		—	—	50	nA
Common-mode input voltage range	V _{CM}		0	—	V _{CC} -1.5	V
Supply current	I _{CC}	R _L =∞	—	—	2	mA
Voltage gain	G _V	R _L ≥2kΩ	—	100	—	dB
Maximum output voltage	V _{O(max.)}	R _L =2kΩ	V _{CC} -1.5	—	—	V
Common-mode rejection ratio	CMR		65	85	—	dB
Supply voltage rejection ratio	SVR		65	100	—	dB
Channel separation	CS	f=1kHz to 20kHz	—	120	—	dB
Output source current	I _{O(source)}	V _{in} ⁺ =1V, V _{in} ⁻ =0V	20	40	—	mA
Output sink current	I _{SINK}	V _{in} ⁺ =0V, V _{in} ⁻ =1V	10	20	—	mA

■ Characteristics Curve



■ Application Circuit

Positive Phase Amplifier



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Panasonic