

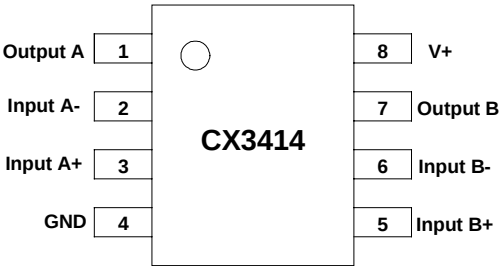
GENERAL DESCRIPTION

The CX3414 integrated circuit is a high gain, high output current, high output voltage swing dual operational amplifier capable of driving 70mA.

FEATURES

- ◆ Single Supply
- ◆ Operating Voltage (+3~+18V)
- ◆ High Output Current (70mA)
- ◆ Slew Rate (1.0V/μs)
- ◆ Package Outline DIP8, SOP8
- ◆ Bipolar Technology

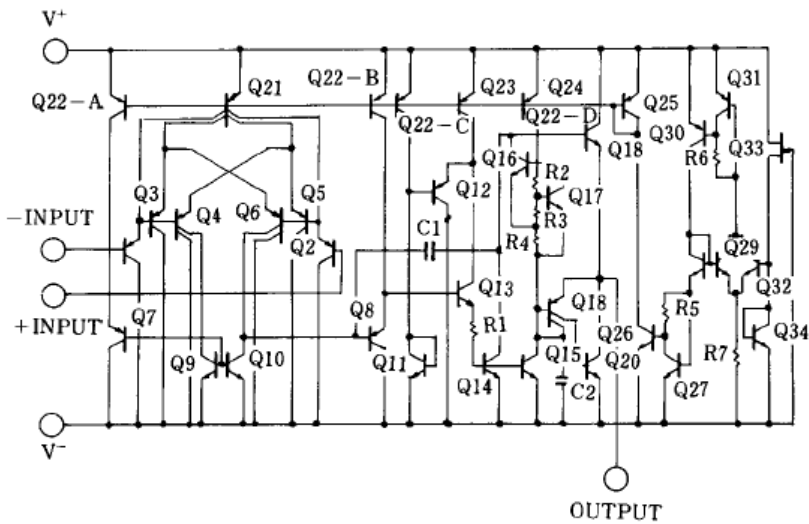
PINS FUNCTION



ABSOLUTE MAXIMUN RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	$V^+(V^+/V^-)$	18V(or $\pm 9.0V$)	V
Differential Input Voltage	V_{ID}	18	V
Input Voltage	V_{IC}	-0.3~+18	V
Power Dissipation	P_D	(DIP) 500 (SOP) 300	mW
Operating Temperature Range	T_{opr}	-20~+75	
Storage Temperature Range	T_{stg}	-40~+125	

EQUIVALENT CIRCUIT (1/2 Shown)

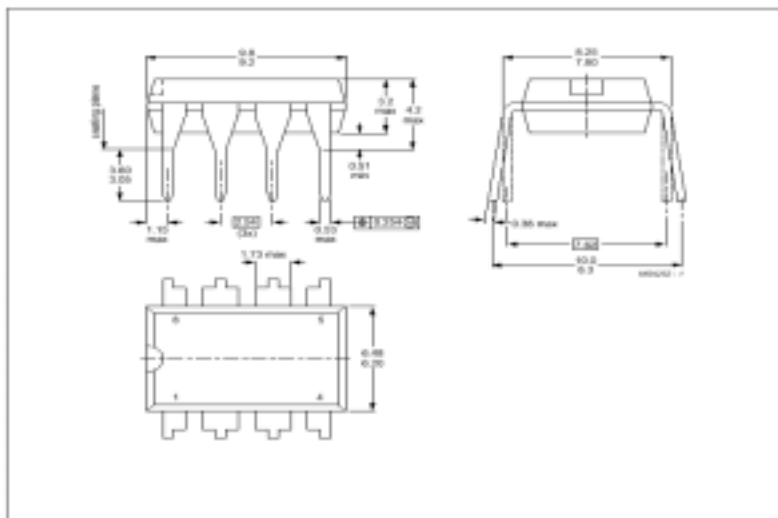


ELECTRICAL CHARACTERISTICS

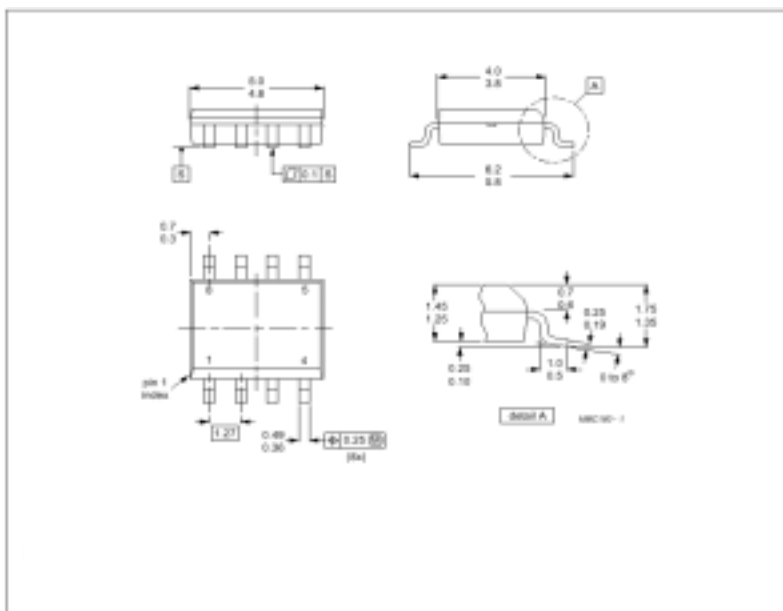
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Input Offset Voltage	V_{IO}	$R_s=0\Omega$		2	5	mV
Input Offset Current	I_{IO}			5	100	nA
Input Bias Current	I_B			100	500	nA
Large Signal Voltage Gain	A_V	$R_L=2K\Omega$	88	100		dB
Input Common Voltage Range	V_{ICM}		V^+-2			V
Maximum Output Voltage Swing 1	V_{OM1}	$R_L \geq 2K\Omega, V^+=5V$	3.5			V
Maximum Output Voltage Swing 2	V_{OM2}	$I_O=70mA, V^+=5V$	3.2			V
Common Mode Rejection Ratio	CMR		80	90		dB
Supply Voltage Rejection Ratio	SVR		80	90		dB
Operating Current	I_{CC}	$R_L=\infty$	3	4	5	mA
Slew Rate	SR			1.0		V/ μs
Gain Bandwidth Product	GB			1.3		MHZ
Operating Voltage Range	V^+				18	V

PACKAGE OUTLINE

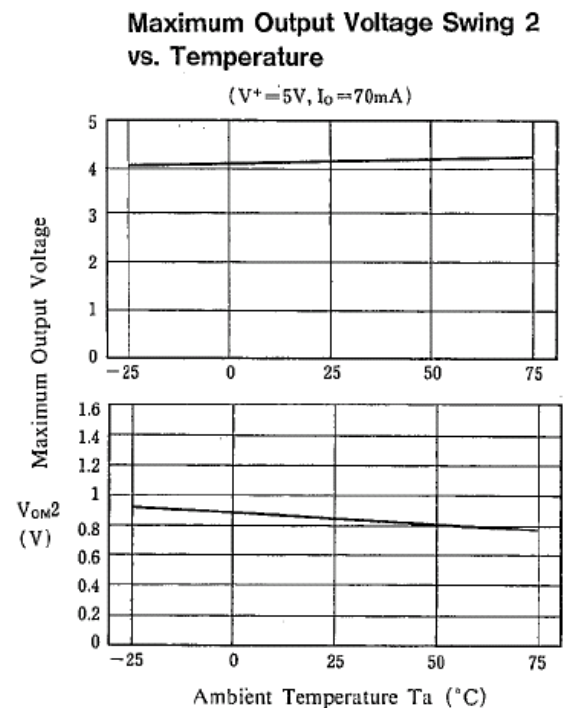
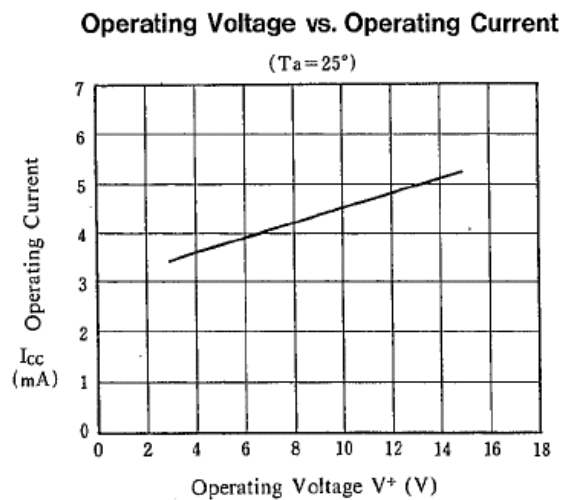
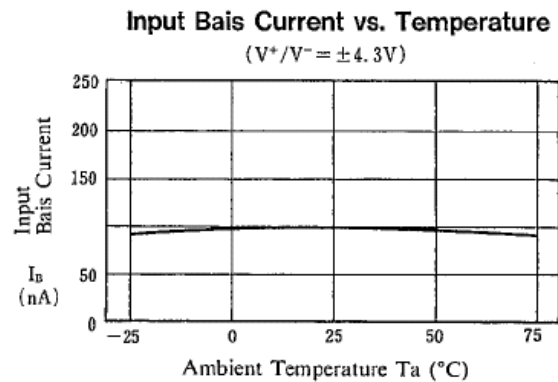
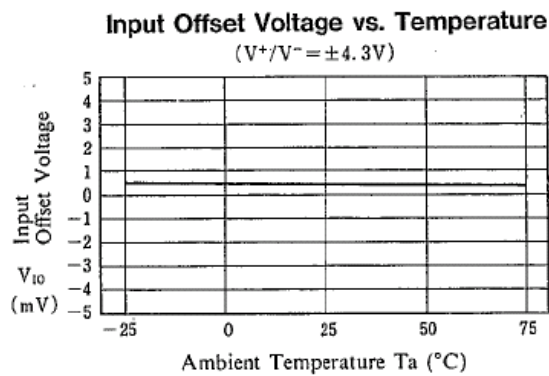
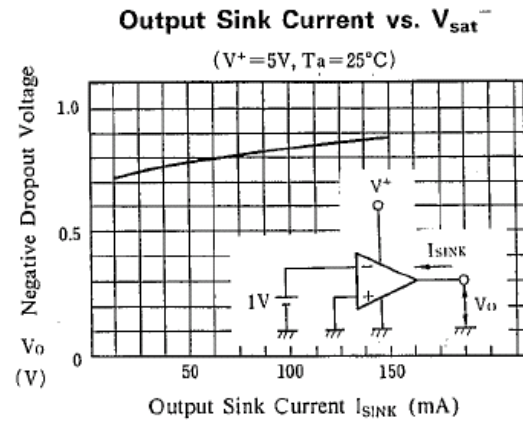
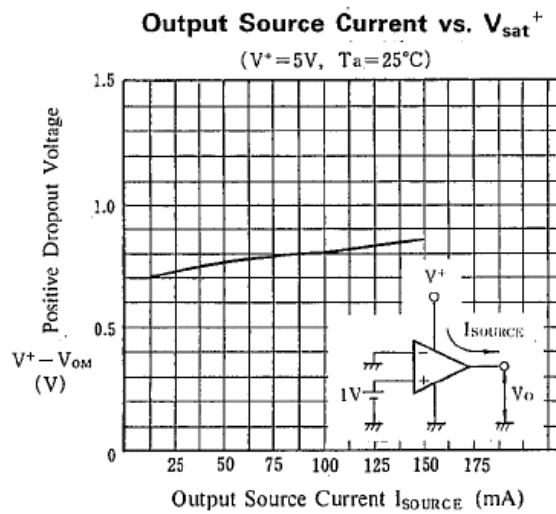
DIP8



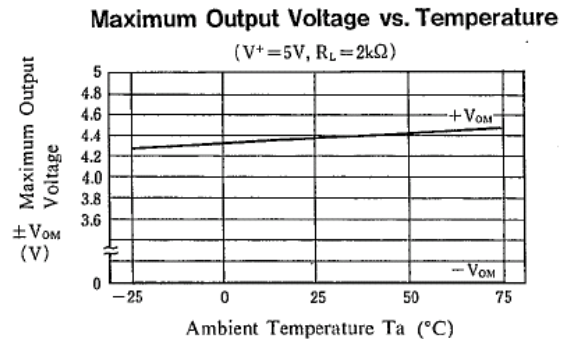
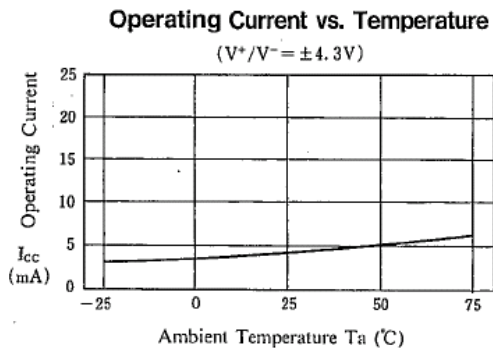
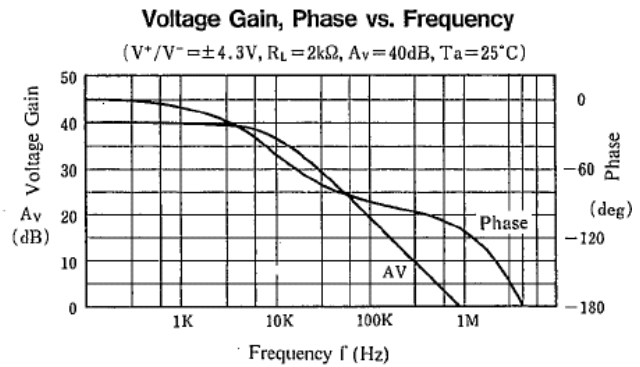
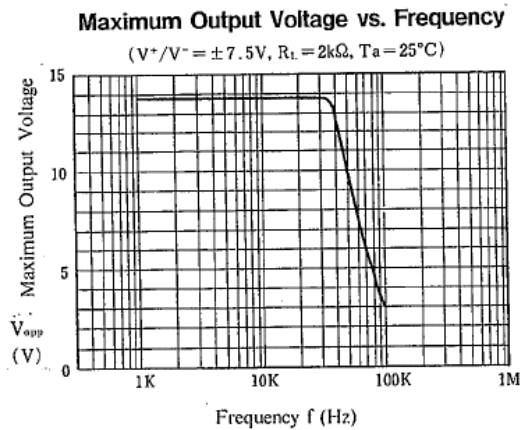
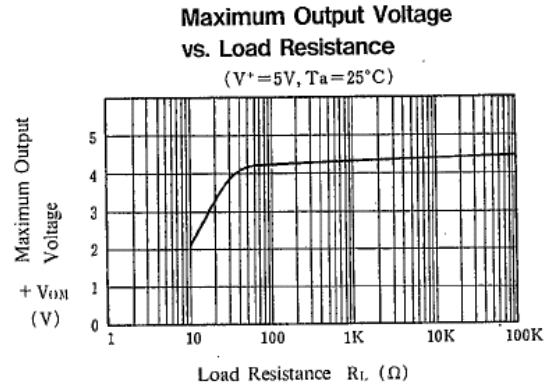
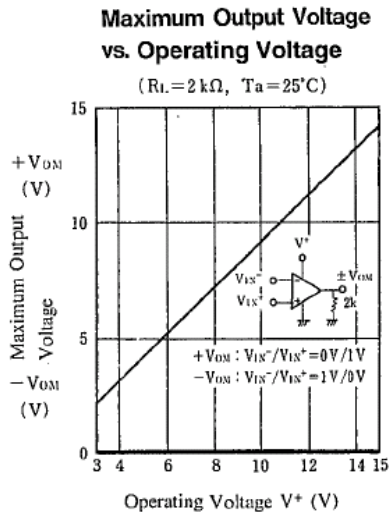
SOP8



TYPICAL CHARACTERISTICS



TYPICAL CHARACTERISTICS(Cont.)



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