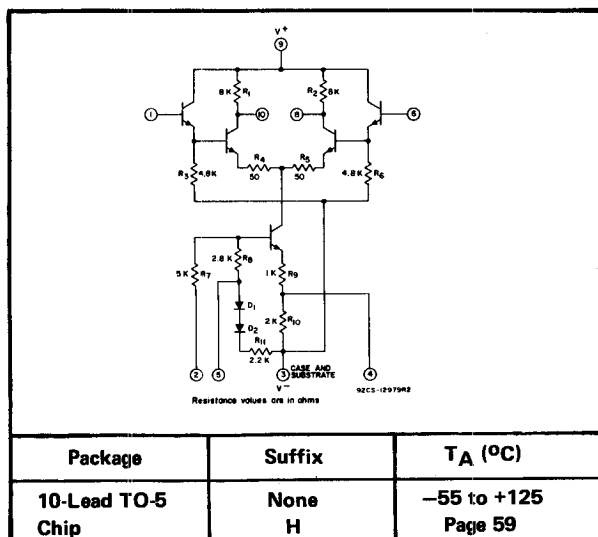


DC Amplifier

CA3000



File No. 121; ICAN-5030*
High-Reliability Version, See Page 41

Application and Features

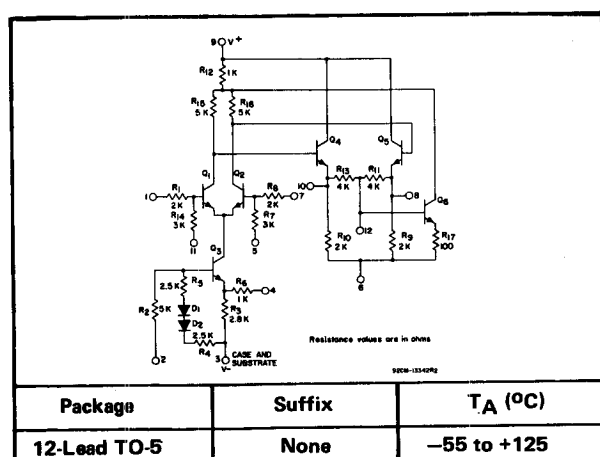
Comparator
Crystal oscillator
Mixer
Modulator
RC-coupled feedback amplifier
Schmitt trigger
Sense amplifier
Push-pull input and output
Frequency Range:
DC to 30MHz (with external C and R)

Electrical Characteristics at T_A = 25°C

Input Offset Voltage	5	mV max.
Differential Voltage Gain at 1kHz (Single-Ended Output)	28	dB min.
Common-Mode Rejection Ratio at 1kHz	70	dB min.
AGC Range at 1kHz	80	dB min.
Input Impedance at 1kHz	70	kΩ min.

AF Amplifier

CA3007



File No. 126*

Applications and Features

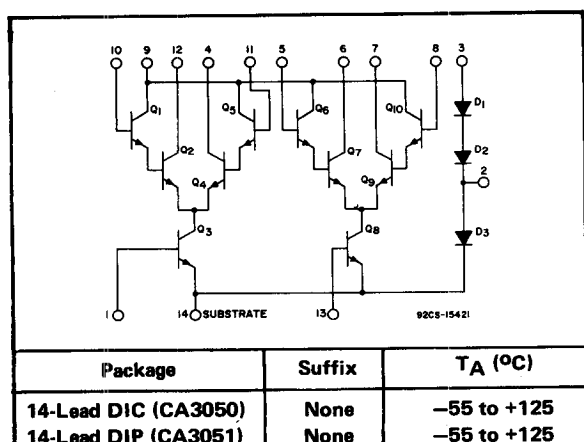
Audio amplifier
Audio driver
Balanced differential amplifier
Communications equipment
Direct coupling to class B audio output stage
Push-pull input and output
Sound systems

Electrical Characteristics at T_A = 25°C

Power Gain (f = 1 kHz)	20	dB min.
Total Harmonic Distortion	0.28	% typ.
Common-Mode Rejection Ratio	77	dB typ.
Input Impedance	4	kΩ typ.
Output Impedance	60	Ω typ.

Dual Differential Darlington-Connected Amplifiers

CA3050
CA3051



File No. 361*

Applications and Features

Balanced quadrature detectors
Doubly balanced detectors and modulators
Dual multivibrators
Dual Schmitt triggers
Dual sense amplifiers
Independently accessible inputs and outputs
Matched dual amplifiers
Product detectors
Synthesizer mixers
The CA3051 is like the CA3050 except it has a lower dissipation and a limited temperature range

Electrical Characteristics at T_A = 25°C

Input Offset Voltage	5	mV max.
Input Offset Current	70	nA max.
Input Bias Current	500	nA max.
Bandwidth (-3dB point)	4.3	MHz typ.
Input Impedance at 1kHz	460	kΩ typ.

* Refer to indicated File No. for data bulletin and where given to indicated ICAN No. for application note.