



MOTOROLA

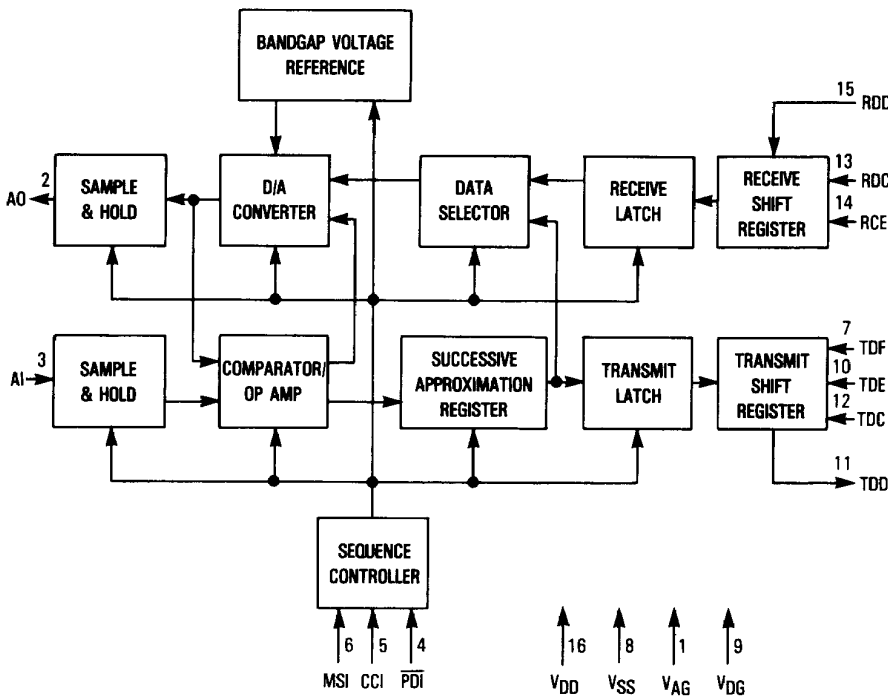
Advance Information

**Serial 13-Bit Linear Codec
(A/D and D/A)**

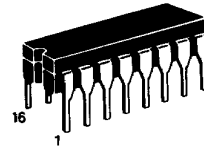
The MC145402 is a 13-bit linear monotonic digital-to-analog and analog-to-digital converter implemented in a single silicon-gate CMOS IC. Potential applications include analog interface for Digital Signal Processor (DSP) applications, high speed modems, telephone systems, SONAR, Adaptive Differential Pulse Code Modulation (ADPCM) converters, echo cancellers, repeaters, voice synthesizers, and music synthesizers.

- 60 dB Signal-to-(Noise Plus Distortion) Ratio Typical
- On-Chip Precision Voltage Reference
- Serial Data Ports
- 2's Complement Coding
- ±5 Volt Supply Operation
- Sample Rates from 100 Hz to 16 kHz (Both A/D and D/A), 100 Hz to 21.3 kHz (A/D Only), and 100 Hz to 64 kHz (D/A Only)
- Input Sample and Hold Provided On-Chip
- 5 Volt CMOS Inputs; Outputs Capable of Driving Two LSTTL Loads
- Available in a 16-Pin DIP
- Low Power Consumption: 50 mW Typical, 1 mW Power Down

BLOCK DIAGRAM



MC145402



L SUFFIX
CERAMIC
CASE 620

PIN ASSIGNMENT

