

### **Product Preview**

# Multistandard Video Signal Processor with Integrated Chroma Delay Line

The MC44030/35 is a highly advanced circuit which performs most of the basic functions required for a color TV. All its advanced features are under processor control via I<sup>2</sup>C bus, enabling potentiometer controls to be removed completely and allowing significant cost savings together with the possibility of implementing sophisticated automatic test routines.

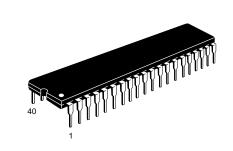
A summary of the features available on the device is given below:

- Operation from a Single 5.0 V Supply; Low Current Consumption (Typically 150 mA)
- PAL/SECAM/NTSC Decoding Capability (4 Matrix Modes Available)
- Integrated Chroma Delay Line
- Dual Composite Video or S–VHS Inputs
- Integrated Luma and Chroma Filters (Including SECAM Cloche Filter)
- Programmable Luma Delay and Peaking
- RGB Drives Including CONTRAST/BRIGHTNESS Controls and Auto Grey-Scale
- External RGB and Fast Commutate Inputs with SATURATION Control Possibility
- Auxiliary Y, R-Y, B-Y Inputs
- Line Timebase Featuring H–PHASE Control and Switchable Phase Detector Gain
- Countdown Type Vertical Timebase Including the Vertical Geometry Corrections
- 16:9 Display Mode Capability
- E-W Parabola Drive Including the Horizontal Geometry Corrections
- Anode Current Monitor with Vertical Breathing Compensation
- Analog Contrast Control, Allowing Fast Beam Current Limitation
- Pin to Pin Compatible with MC44002/7
- MC44035 is the PAL/NTSC Only Version of the MC44030
- Available in DIP and TQFP Packages

## MC44030 MC44035

# MULTISTANDARD VIDEO SIGNAL PROCESSOR WITH INTEGRATED CHROMA DELAY LINE

SEMICONDUCTOR TECHNICAL DATA



P SUFFIX
PLASTIC PACKAGE
CASE 711



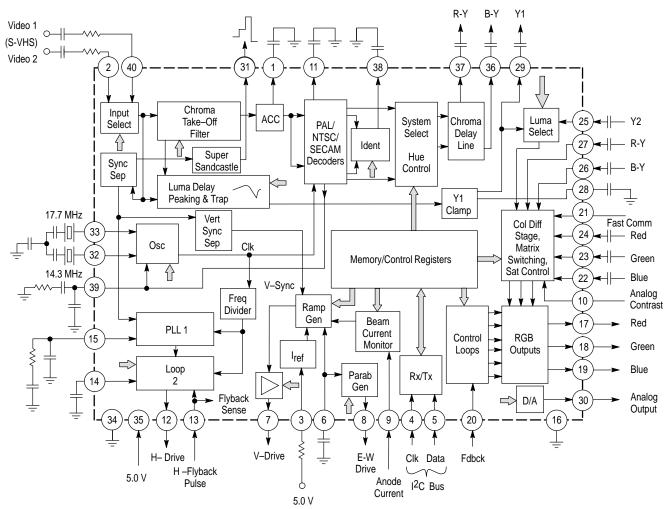
FTB SUFFIX
PLASTIC PACKAGE
CASE 824D
(TQFP-44)

#### **ORDERING INFORMATION**

Device	Operating Temperature Range	Package
MC44030P	T <sub>A</sub> = 0° to +70°C	Plastic DIP
MC44030FTB		TQFP-44
MC44035P		Plastic DIP
MC44035FTB		TQFP-44

#### MC44030 MC44035

#### **Simplified Block Diagram**

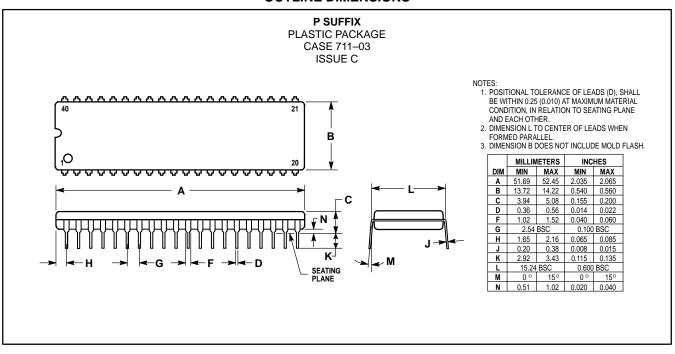


NOTE: Pin numbers shown are for the DIP package.

This device contains 6360 active transistors.

#### MC44030 MC44035

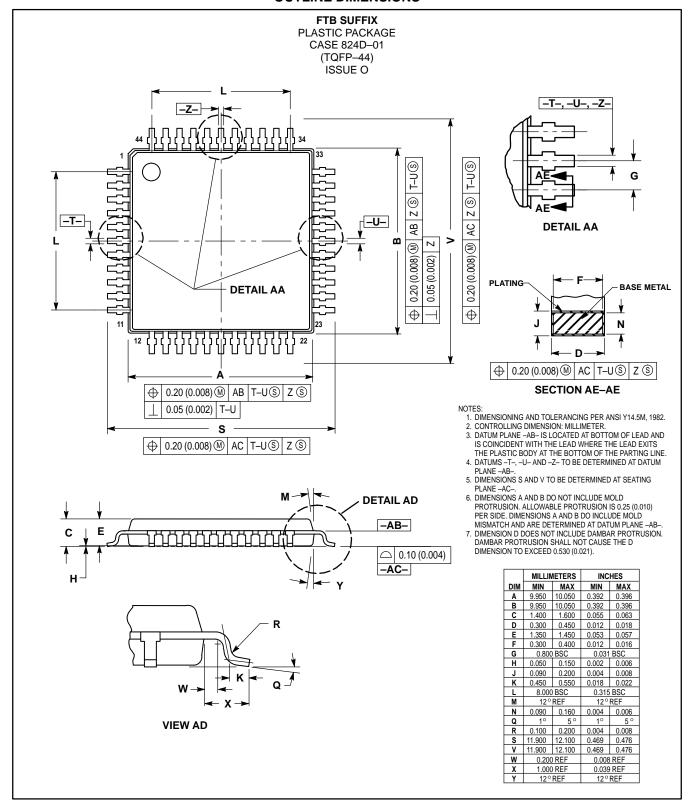
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#### MC44030 MC44035

#### **OUTLINE DIMENSIONS**



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