

SPECIAL CIRCUITS (continued)

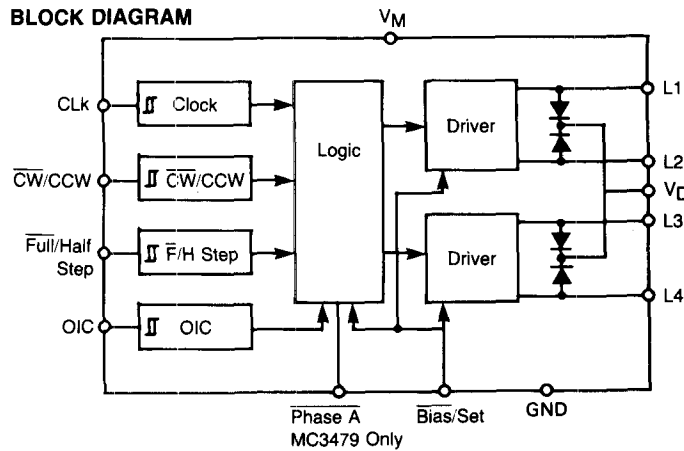
Motor Control

Stepper Motor Drivers

MC3479P $T_A = 0^\circ$ to $+70^\circ\text{C}$, Case 648C
 SAA1042P,AP $T_A = 0$ to $+70^\circ\text{C}$, Case 721

Stepper Motor Drivers provide up to 500 mA of drive per coil for two phase 6.0 V to 24 V stepper motors. Control logic is provided to accept commands for clockwise, counter clockwise and half or full step operation. MC3479P has added Output Impedance Control (OIC) and Phase A drive state indicator (not available on SAA1042 devices).

BLOCK DIAGRAM

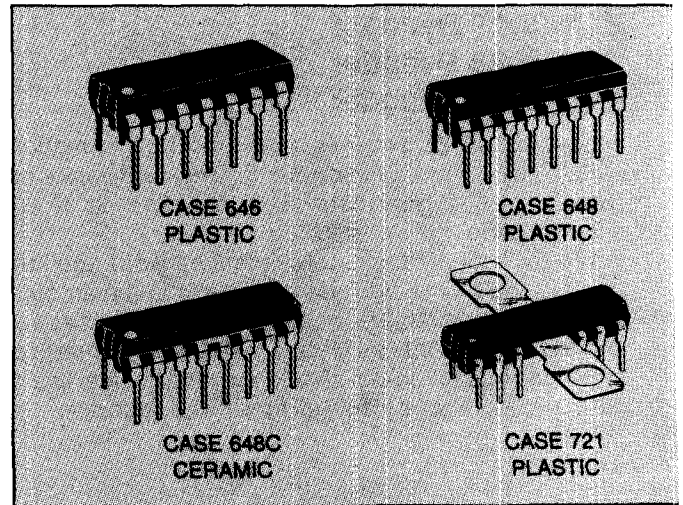


Triac Phase Angle Controller

TDA1185A,P
 $T_A = 0$ to $+70^\circ\text{C}$, Case 646

... generates controlled triac triggering pulses and allows tachless speed stabilization of universal motors by an integrated positive feedback function. Typical applications are power hand tools, vacuum cleaners, mixers and other small appliances.

- Low Cost External Components Count
- Optimum Triac Firing (2nd and 3rd Quadrants)
- Repetitive Trigger Pulses When Triac Current is Interrupted by Motor Brush Bounce
- Triac Current Sensed to Allow Inductive Loads
- Soft Start
- Power Failure Detection and General Circuit Reset
- Low Power Consumption: 1.0 mA



Universal Motor Speed Controllers

TDA1285AP
 TDA1085AP,CP
 $T_A = 0$ to $+70^\circ\text{C}$, Case 648, 751B

... all the necessary functions for the speed control of universal (ac/dc) motors in an open or closed loop configuration. Facility for defining the initial speed/time characteristic. The circuits provide a phase angle varied trigger pulse to the motor control triac.

- Guaranteed Full Wave Triac Drive
- Soft Start from Powerup
- On-Chip Frequency/Voltage Converter and Ramp Generator
- Current Limiting Incorporated
- Direct Drive from ac Line
- Hall Effect Speed Sensing (TDA1285A only)

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