

## Applications of VCO (566)

### Characteristics of VCO:

The LM566CN is a general purpose voltage controlled oscillator which may be used to generate square and triangular waves, the frequency of which is a very linear function of a control voltage.

The frequency is also a function of an external resistor and capacitor.

The LM566CN is specified for operation over the 0 to 70<sup>0</sup> C temperature range.

Wide supply voltage range: 10V to 24V

Very linear modulation characteristics

High temperature stability

Excellent supply voltage rejection

10 to 1 frequency range with fixed capacitor

Frequency programmable by means of current, voltage, resistor or capacitor

### Applications

FM modulation

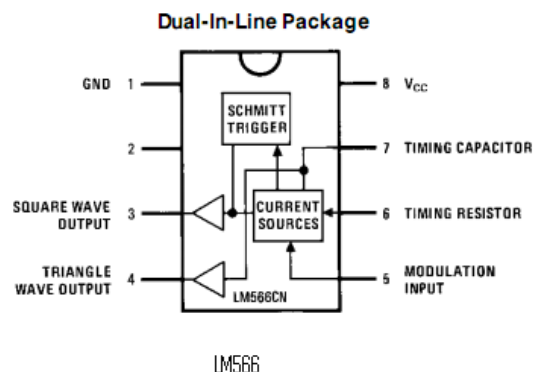
Signal generation

Function generation

Frequency shift keying

Tone generation

1 kHz and 10 kHz TTL Compatible Voltage Controlled Oscillator



**Figure 3.7**