

Novel sound to light

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This small unit provides a pseudo random pattern on a LED seven segment display which changes in time with a musical input. The actual display is driven from two 7493 counters connected in series, the outputs being connected to each segment and the decimal point via 270 ohms resistors. In this way, as the counters are clocked up to a maximum of 256, each number will correspond to a different pattern. The clock is derived directly from a , loudspeaker output and, after being rectified and smoothed by the capacitor, it is squared up by the Schmitt trigger gates. Note the addition of a diode to the +5 volt rail; this must be included in case high amplifier levels are used. The potentiometer acts as a level control and should be adjusted for the most pleasing effect.

