

FR1001 Candle Effects Integrated Circuit (IC)

The FR1001 is an advanced special effects integrated circuit (IC) designed to simulate the flickering pattern of a candle flame. This IC is specifically designed for OEM and amateur applications and is extremely easy to use. The IC requires a nominal 5V VCC voltage and its output connects directly to the gate of a logic-level N-channel MOSFET transistor which can drive both single LEDs as well as multiple LED string arrays. The FR1002 can also drive MOSFETs which control incandescent and halogen lights.

The FR1001 provides a more exaggerated flicker pattern than the FR1002 and is especially suited for applications where highly noticeable flicker pattern is required.

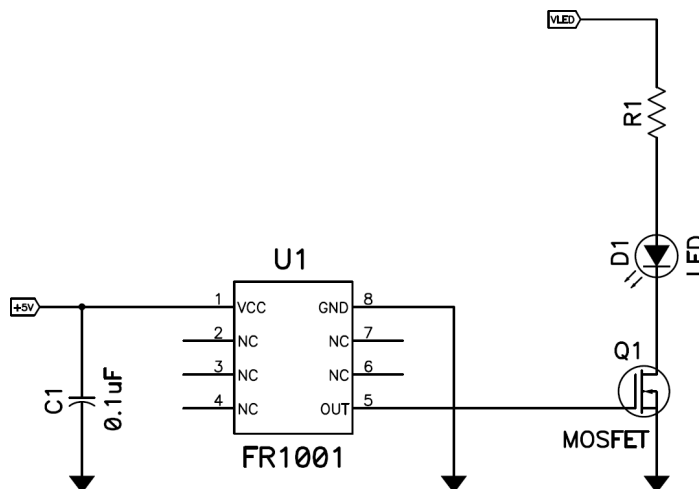
Features

- Operates from 4.5 to 5.5VDC
- Compatible with most logic-level N-channel MOSFET transistors
- Designed for driving LEDs, incandescent, and halogen lights
- Simple operation – Requires only three (3) connections
- Available in industry standard DIP-8 and SOIC-8 packages
- High brightness and exaggerated flicker pattern for maximum visual impact

Pin Descriptions

Pin Number	Function
1	Vcc – Connect to 4.5 to 5.5V power source
2	No connection
3	No connection
4	No connection
5	Output – Drives logic-level N-Channel MOSFETs
6	NC
7	NC
8	Gnd – Connect to ground

Typical Application



Note: A 0.1µF bypass ceramic capacitor is required.