

VARIABLE LIGHT FLASHER

THIS circuit is for a simple light flasher that is for both domestic and disco use. It is built around a TTL SN7414N hex inverter Schmitt used as an oscillator. To obtain full lamp brilliance a triac is used, rather than a thyristor, and is driven by a BFY50 transistor. The output of the power supply is about 9V which is dropped to 5.1V, for the i.c., using a Zener diode.

The range of frequencies that the lamp will flash over is determined by C1, VR1 and R1. The formula for calculating the frequency is $f = 1/(R_1 + VR_1)C_1$, where f is in hertz, C is in farads, R is in ohms.

With the values shown in the diagram the lamp flashes about once every second to about 45 times a second. The lamp load that the circuit will drive is determined by the handling capability of the triac.

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