



BRIEF DESCRIPTION OF FIRING CIRCUIT

A Firing Circuit is used to turn on a thyristor. Firing Circuits can be built using different components.

Some of them are:

- (1) Firing Circuit using UJT & Pulse Transformer.
- (2) Firing Circuits using Operational Amplifiers
- (3) Digital Firing Circuits

DESCRIPTION OF THE CIRCUIT

The Circuit which is drawn is an 8 bit Digital Firing Circuit. This circuit is constructed using 6 IC

- (1) The circuit contains two 74LS193 ICs which is an up / down counter. In this circuit its used a down counter.
- (2) There are two 74LS32 ICs which are Quad OR Gates.
- (3) The Clock to the circuit is provided by 555 Timer IC.
- (4) MOC 3020 is an opto Triac. This IC is providing Isolation to the triac.

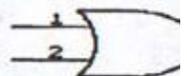
COMPONENTS USED IN PROJECT



NPN TRANSISTOR
C828



TRIAC
BT 139



OR GATE
7432

