



TIMER CIRCUIT FOR MUTING
USED ON SA-3, SA-5, SA-7, SA-12, SA-20

TIME TO UNMUTE IS EQUAL TO $1.1R_tC_t$
WHEN VOLTAGE IS APPLIED TO THE CIRCUIT, C_t BEGINS TO
CHARGE THROUGH R_t . WHEN 2/3 VOLTAGE IS REACHED
TIMER OUTPUT (PIN 3) GOES LOW, PULLING CURRENT
THROUGH THE RELAY COIL.
D1 ALLOWS QUICK DISCHARGE OF C_t WHEN POWER IS REMOVED,
D2 PROTECTS THE 555 FROM BACK-EMF FROM THE RELAY.

EXAMPLE OF LED DRIVER CIRCUIT
(REFERENCE DESIGNATORS ARE AS USED ON SA-12)

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