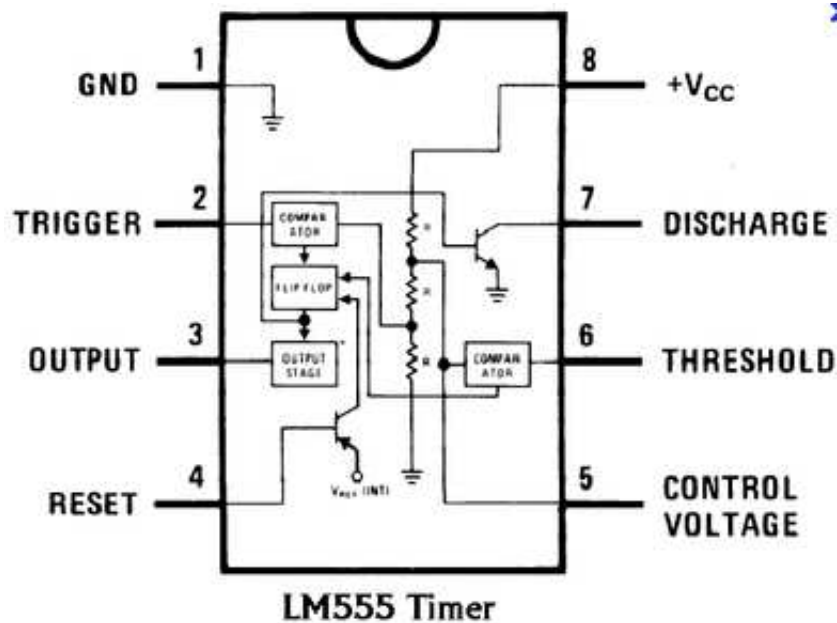


ic555a.gme

### Attributes

```
mainnodes_anlg: ground trig out reset control thresh disch vcc
rparms: v0=5 r=10k
outvar_dgtl:
+ r=dvar_of_r
+ s=dvar_of_s
+ q=dvar_of_q
+ qbar=dvar_of_qbar
```



### Description

ic555a.gme is a 555 timer implemented as a mixed-signal circuit. The RS flip-flop is implemented as a digital element. The BJT switch is modelled at a behavioral level ( $R_{\text{on}}/R_{\text{off}}$ ). The output of the timer is 5 V (default value of the real parameter v0) if Q is high; else, it is 0 V. The digital variables r, s, q, and qbar are made available as output variables. AC behaviour is not implemented.