βTDA 1085A
UNIVERSAL MOTOR SPEED CONTROLLER

The βTDA 1085A is a monolithic integrated circuit that provides all the necessary functions for the speed control of universal (AC series) motors in an open or closed loop configuration; additionally it has the facility for defining the initial speed/time characteristics. The circuit provides a phase angle varied trigger pulse to the motor control triac.

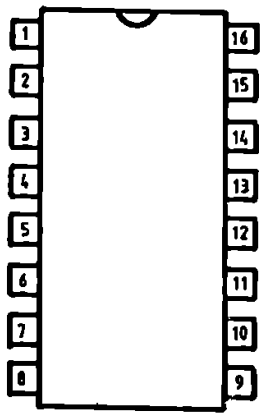
The functions of this circuit include :

- guaranteed full wave triac drive
- soft start from power-up
- on-chip frequency/voltage convertor and ramp generator
- current limiting incorporated
- direct drive from AC line

Features

- Operating temperature	0 ...	+70 oC
- Storage temperature	-25 ...	+125 oC
- Regulated voltage		15.5 V
- Control amplifier transconductance	max.	300 uA/V
- Trigger pulse repetition period	max.	215 us
- Trigger pulse width	max.	100 us
- Output leakage current	min.	30 uA

1. Current synchronisation
2. Voltage synchronisation
3. Motor current limit
4. Actual speed
5. Set speed
6. Ramp current generator control
7. Ramp generator timing
8. V-
9. V+
10. Ballast resistor
11. F/VC pump capacitor
12. Digital speed sense
13. Trigger pulse output
14. Sawtooth capacitor
15. Sawtooth set current
16. Closed loop stability



PACKAGE MP-117 / TOP VIEW