# **CD5020A PWM Controller**

## **General Description**

The CD5020A high voltage pulse-width-modulation (PWM) controller contains all of the features needed to implement single ended primary power converter topologies. CD5020A is based on current-mode control, and eases the design of loop compensation. The CD5020A includes a high-voltage start-up regulator that operates over a wide input voltage range up to 100V. The PWM controller is designed for high speed oscillator with frequency up to 1MHz and total propagation delays less than 100ns. Additional features include an error amplifier, precision reference, line under-voltage lockout, cycle-by-cycle current limit, slope compensation, softstart, oscillator synchronization capability and thermal shutdown.

#### Absolute Maximum Ratings

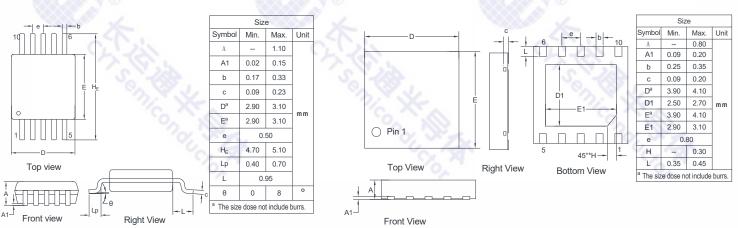
VIN to GND	-0.3V to 100V
VCC to GND	-0.3V to 16V
RT to GND	-0.3V to 5.5V
All other pins to GND	-0.3V to 7V
Junction temperature	150°C
Storage temperature	-65°C to 150°C

### **Recommended Operating Conditions**

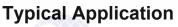
VIN voltage	13V to 90V
VCC voltage	8V to 15V
Operating junction temperature $(T_{J})$	-40°C to 125°C

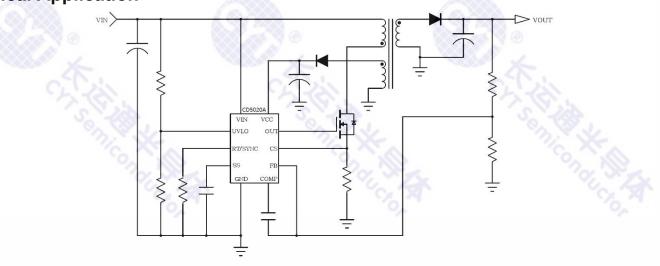
WSON10

## Package Diagram



VSSOP10







**CD5020A** 

