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CYT Semiconductor



PWM Controller

Description

CYI

The CD5021 off-line Pulse-width Modulation (PWM) controller contains all of the features needed to implement highly efficient off und single-ended flyback and forward power converters using current-mode control.

The CD5021 features include an ultra-low start-up current, which minimizes power losses in the high voltage start-up network. A skip cycle mode reduces power consumption with light loads for energy conserving applications. Additional features include under-voltage lockout, cycle-by-cycle current limit, hiccup mode overload protection, slope compensation, soft-start and oscillator synchronization capability. CD5021 has total propagation delays less than 100 ns and a 1MHz capable oscillator that is programmed with a single resistor.

Absolute Maximum Ratings

VIN to GND	-0.3V to 30V
VCC to GND	-0.3V to 10V
CS1, CS2 to GND	-0.3V to 1.25V
RT to GND	-0.3V to 5.5V
All other inputs to GND	-0.3V to 7V
Junction Temperature	150°C
Storage Temperature Range	-65°C to 150°C

Recommended Operating Conditions

VIN Voltage ^a	8V to 30V	
VCC Voltage	8V to 10V	
Operating Junction Temperature		
^a When the VIN is greater than or equal to 20V at the first startup, it		
can work normally.		

Package Diagram





