

# PWM Controller

CYT  
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## Description

The CD5035 PWM controller is a Feedforward voltage mode control PWM controller with supply voltages up to 105. Both the high-side and low-side gate drivers are capable of 2A peak. The CD5035 includes a high-voltage start-up regulator, additional features include line undervoltage lockout (UVLO), overvoltage protection (OVP), dual mode overcurrent protection and external clock synchronization function. The oscillator is programmed with a single resistor to frequencies up to 1MHz.

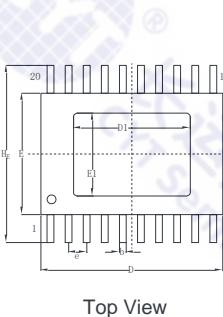
## Absolute Maximum Ratings

VIN to GND	-0.3V to 105V	CS1,RT,DLY to GND	-0.3V to 5.5V
VCC to GND	-0.3V to 10V	COMP pin Input Current	10mA
HS to GND	-1V to 105V	All other inputs to GND	-0.3V to 7V
HB to GND	-0.3V to 118V	Junction Temperature	150°C
HB to HS	-0.3V to 18V	Storage Temperature Range	-65°C to 150°C

## Recommended Operating Conditions

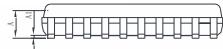
VIN Voltage	13V to 100V	Operating Junction Temperature ( $T_J$ )	-40°C to 125°C
VCC Voltage	8V to 10V		

## Package Diagram



Top View

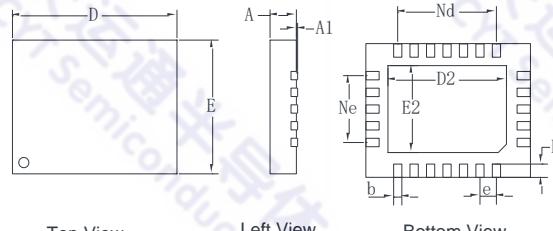
Size				
Symbol	Min.	Typ.	Max.	Unit
A	--	--	1.20	
A1	0.02	--	0.15	
b	0.19	--	0.30	
c	0.09	--	0.20	
D <sup>a</sup>	6.40	--	6.60	
D1	4.05	4.20	4.35	
E <sup>a</sup>	4.30	--	4.50	
E1	2.85	3.00	3.15	
e	--	0.65	--	
H <sub>E</sub>	6.20	--	6.60	
L <sub>p</sub>	0.45	--	0.75	
L	--	1.00	--	
g	0	--	8	*

<sup>a</sup>The size dose not include burrs.

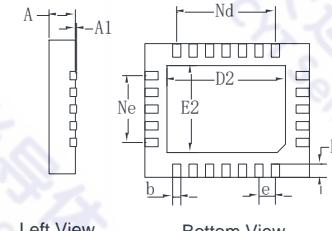
Front View



Left View



Top View



Left View



Front View

Size				
Symbol	Min.	Typ.	Max.	Unit
A	0.70	0.75	0.80	
A1	0	0.02	0.05	
b	0.20	0.25	0.30	
D <sup>a</sup>	4.90	5.00	5.10	
D2	3.50	3.60	3.70	
E <sup>a</sup>	3.90	4.00	4.10	
E2	2.50	2.60	2.70	
e	--	0.50	--	
Ne	--	2.00	--	
Nd	--	3.00	--	
L	0.35	0.40	0.45	

<sup>a</sup>The size dose not include burrs.

WQFN24

## Typical Application Circuit

