

Question

- 1 What is the difference between UC 28025 and UC 2825?
 Example part The circuit is the same but the process is different etc.)
 Is there a document stating the difference?

	UC28025	UC2825	UC2825A	UC2825B
Topology	Boost Flyback Forward Full-Bridge Half-Bridge Push-Pull	Boost Flyback Forward Full-Bridge Half-Bridge Push-Pull	Boost Flyback Forward Full-Bridge Half-Bridge Push-Pull	Boost Flyback Forward Full-Bridge Half-Bridge Push-Pull
Control Method	Current Feedforward Voltage	Current Feedforward	Current Voltage	Current Voltage
Vin (Min) (V)	9.2	9.2	9.2	16
Vin (Max) (V)	30	30	22	22
Frequency (Max) (kHz)	1000	1000	1000	1000
UVLO Thresholds On/Off (V)	9.2/8.4	9.2/8.4	9.2/8.4	16/10
Duty Cycle (Max) (%)	100	80	50	50
Gate Drive (Typ) (A)	1.5	1.5	2	2
Features	Adjustable Switching Frequency Current Limiting Error Amplifier Green Mode Light Load Efficiency Multi-topology Programmable Max Duty Cycle Soft Start Synchronization Pin	Adjustable Switching Frequency Current Limiting Error Amplifier Multi-topology Programmable Max Duty Cycle Soft Start Synchronization Pin	Adjustable Switching Frequency Current Limiting Dead Time Control Error Amplifier Leading Edge Blanking Multi-topology Programmable Max Duty Cycle Soft Start Synchronization Pin	Adjustable Switching Frequency Current Limiting Dead Time Control Error Amplifier Leading Edge Blanking Multi-topology Programmable Max Duty Cycle Soft Start Synchronization Pin
Operating Temperature Range (C)	-40 to 105	-40 to 85	-40 to 85	-40 to 85
Pin/Package	16PDIP 16SOIC	16PDIP 16SOIC	16PDIP 16SOIC	16PDIP 16SOIC
	Order Now	Order Now	Order Now	Order Now

Comparison chart between UC 28025 and UC 2825 on WEB

- 2 UC28025 and UC2825 are almost the same internal block.
 Why is not Voltage mentioned in UC 2825?

3 Please see the item of Duty Cycle (Max) (%).

Although UC 28025 and UC 2825 are 100% and 80%

Why does this difference happen? (Was the process faster?)

In the data sheet of UCC 28025, the item of Duty Cycle (Max) (%)

Although it is 90% (45%) typ, there is no description of Max value.

There is no description of 100%. Why is it described as 100%?

4 Please look at the item of Features.

In the item of UC 28025, Green Mode, Light Load Efficiency is stated.

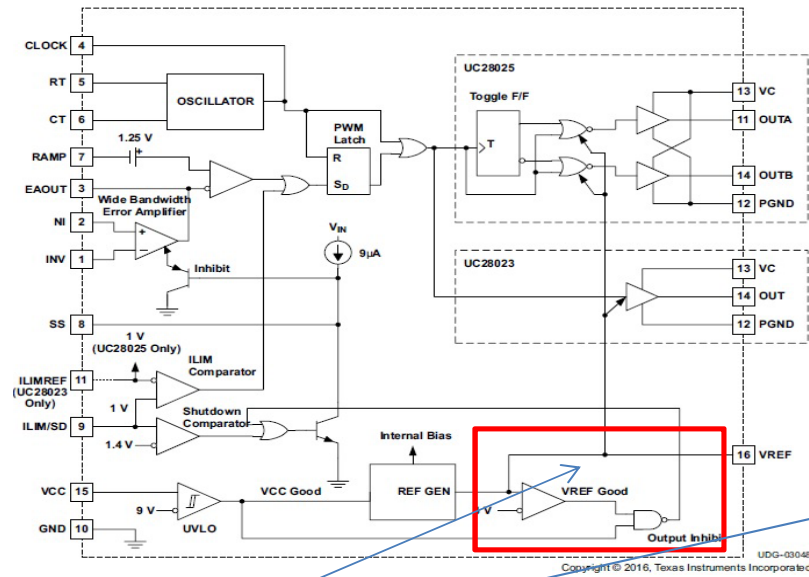
The data sheet does not have this description.

For what reason is this stated?

5 UC28025 data sheet titled 2UC 2802x Economy High-Speed PWM
Controller "is stated.

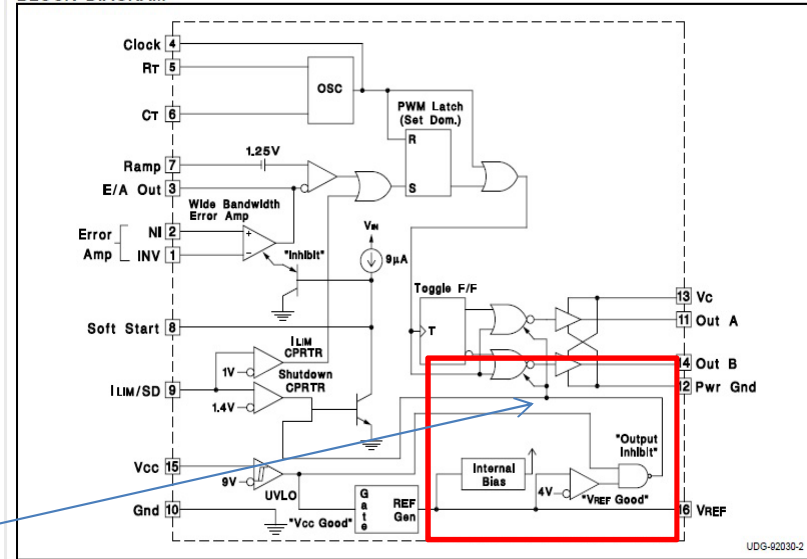
What is Economy, for what reason?

8.2 Functional Block Diagram



UC28025 : Block Diagram

BLOCK DIAGRAM



UC2825 : Block Diagram

- 6 See the block diagram.
 There is a difference in the red frame.
 For what reason did you change this?