

January 2007

FAN5029

8-Bit Programmable 2- to 5-Phase Synchronous Buck Controller

Features

- Selectable 2-, 3-, 4-, or 5-phase operation at up to 1MHz per phase
- ±7.7mV worst-case differential sensing error
- · Active current balancing between the output phases
- Power good and crowbar blanking supports on-thefly VID code changes
- Selectable VR10 extended (7-bit) and VR11 (8-bit) VID tables
- Programmable short-circuit protection and latch-off delay
- · Programmable soft start ramp

Applications

- Desktop PC/Server processor power stations and next generation Intel processors
- VRM modules products

Part Numbers

- FAN5029MPX is no or no designs.
- The FAN5029MPX_NA_C238 replaces the FAN5029MP, and is contatible with a 11/1210 and VR11 processors.

Description

The FAN5029 is a multi-phas ouck switching regulator controller optiminal corn a 12V input supply to the processor convoltant required by high performance Intel® processor. It has an internal code that converting digital voltage identification. VID code that is sont from the processor to some it voltage between 0.5V and 1.6V. It could be 2 WM to external in the programmable by the switch power of SFETs. The mitching requency the searning programmable by the programmed of support 2-, 3-, 4-, or the populations.

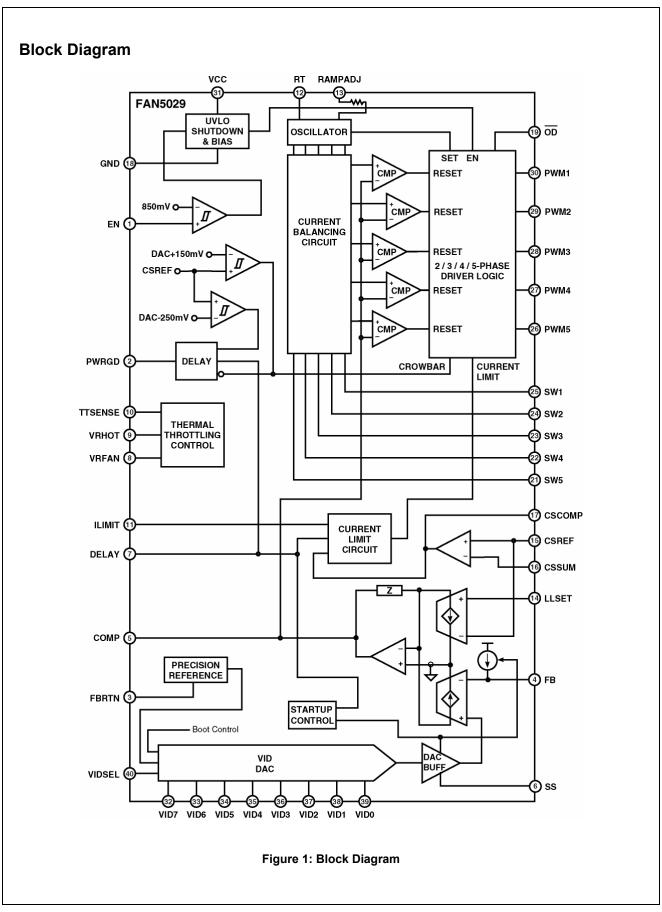
the FAN5029 securicudes programmable no-load offset and droop a ction to adjust the output voltage as a function, the pad current, as required by the Intel specifications. The FAN5029 also provides an accurate a securate short-circuit protection function with an adjustable over-current set point.

The .-AN5029 is specified over the extended mmercial temperature range of 0°C to +85°C and is available in a 40-lead MLP package.

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Part Num er	emperature Range	Package Type	Lead Free	Packing Method	Quantity per Reel
FAN5029MPX	Not For New Designs				
FAN5029MPX_NAA 238	0°C to 85°C	MLP-40	Yes	Tape and Reel	3,000

For more information, please contact Ron Berthiaume at ronald.berthiaume@fairchildsemi.com.



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Programmable Active Droop™
The Power Franchise®

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Definition of Terms

Datasheet Identification	Product Status	Definition
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