

High Performance PWM Controller

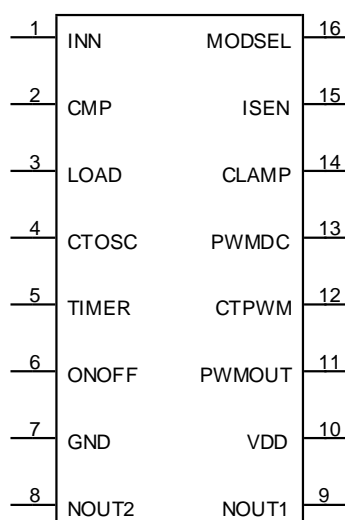
General Description

BIT3713 integrated circuit provides the essential PWM features for DC/DC conversion purpose in a low cost 16-pin package. Another built-in low frequency PWM generator provides user more flexible applications. BIT3713 provides latched off protection feature to make the system more reliable. CMOS process makes BIT3713 consume less power compared to conventional bipolar products.

Features

- Near Zero Stand By Current
- Low Power CMOS Process
- 4.5V ~ 10V operation
- Fixed High Frequency
- Voltage Mode PWM Control Topology
- Latched Off Protection
- Build-In 2nd Low Frequency PWM Generator
- Build-In UVLO
- Totem Pole Output
- SOP-16 Package

Pin Configuration



Applications

- Cold Cathode Fluorescent Lamps system
- LCD Monitor & TV
- Video Phone/ Door Phone
- Portable Instrumentation
- Personal Digital Assistants
- Automotive Display
- Copiers and Office Equipment
- Medical Equipment

High Performance PWM Controller

General Description

BIT3715 integrated circuit provides the essential PWM features for DC/DC conversion purpose in a low cost 16-pin package. Another built-in low frequency PWM generator provides user more flexible applications. BIT3715 provides latched off protection feature to make the system more reliable. CMOS process makes BIT3715 consume less power compared to conventional bipolar products.

Features

- Near Zero Stand By Current
- Low Power CMOS Process
- 4.5V ~ 10V operation
- Fixed High Frequency
- Voltage Mode PWM Control Topology
- Latched Off Protection
- Build-In 2nd Low Frequency PWM Generator
- Build-In UVLO
- Totem Pole Output
- SOP-16 Package

Pin Configuration

1	INN	MODSEL	16
2	CMP	ISEN	15
3	LOAD	CLAMP	14
4	CTOSC	PWMDC	13
5	TIMER	CTPWM	12
6	ONOFF	PWMOUT	11
7	GND	VDD	10
8	NOUT	POUT	9

Applications

- Cold Cathode Fluorescent Lamps system
- LCD Monitor & TV
- Video Phone/ Door Phone
- Portable Instrumentation
- Personal Digital Assistants
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Low Cost PWM CCFL Controller

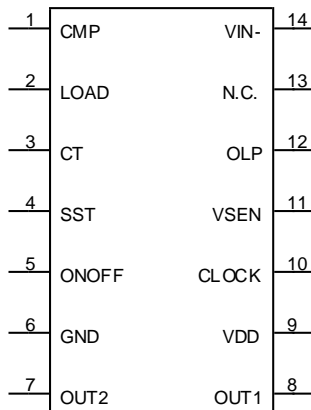
General Description

To aim at the Cold Cathode Fluorescent Lamp (CCFL) applications, BIT3102B integrates all functions required in a single 14-pin chip. The chip provides a fully functioning PWM control circuit with a true load feedback protection. By setting the required time for starting up the load, the fault detection condition can be detected after start-up period. The output load control can be done through a PWM feedback loop. CMOS process reduces the operating current (1mA typical) and NMOS output driving capability enhances the system efficiency.

Features

- PWM Modulation
- Open Lamp Protection
- Internal UVLO (Under Voltage Lock Out) function
- Dimming Control
- CMOS Totem Pole output
- NMOS output driving
- SOP-14 Package

Pin Configuration



Applications

- Cold Cathode Fluorescent Lamps system
- LCD Monitor & TV
- Video Phone/ Door Phone
- Portable Instrumentation
- Personal Digital Assistants
- Automotive Display
- Copiers and Office Equipment
- Medical Equipment

Low Cost PP/HB Selectable PWM CCFL Controller

General Description

BIT3501 provides the essential features for DC/DC conversion PWM controller in a low cost 16-pin package. BIT3501 includes latched off protection feature which makes the system more reliable compared to other similar products. Selectable outputs provide user more flexibility while facing different applications.

Features

- 3.1V ~ 5.5V operation voltage
- Operating Frequency 50kHz~200kHz
- Fixed High Frequency, Voltage Mode PWM Control Topology
- Latched Off Protection
- Programmable Soft Start
- Build-In UVLO
- Low Power CMOS Process
- Selectable Totem Pole Output
- SOP-16 and SSOP-16 Package

Pin Configuration

1	INN	OPOUT	16
2	CMP	OPIN	15
3	LOAD	SEN1	14
4	CTOSC	SEN2	13
5	TIMER	ONOFF	12
6	SST	MODE	11
7	GND	VDD	10
8	OUT1	OUT2	9

Applications

- Cold Cathode Fluorescent Lamps system
- LCD Monitor & TV
- Video Phone/ Door Phone
- Portable Instrumentation
- Personal Digital Assistants
- Automotive Display
- Copiers and Office Equipment
- Medical Equipment

Self-Oscillating Half-Bridge Driver

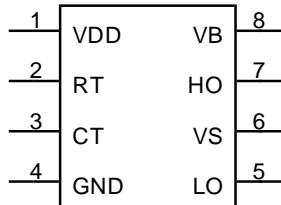
General Description

BIT3803 is a high side and low side gate driver incorporated oscillator. Such internal oscillator determines a frequency operation of its high side and low side gate driver outputs. A low side can drive a power MOS connected to ground and a high side can drive a power MOS connected to high voltage input. All functions are provided by a small SOP-8 package.

Features

- Up to 600V half-bridge gate driver
- Fixed operation frequency
- Provides low side gate driver signal
- Provides high side gate driver signal
- SOP-8 and DIP-8 package

Pin Configuration



Applications

- Half-bridge gate driver
- Ballast
- DC/AC converter

Typical Application Circuit

