

High Performance CCFL Control IC – Full Bridge

Description:

OB3328(N)/OB3328U

is a full bridge CCFL controller optimized for high efficiency flat panel backlight application. The inverter converts unregulated DC voltage into regulated pseudo sinusoidal signal through resonant network. Good sinusoidal current driving results in prolonged CCFL life, improved system efficiency (nit/watt ratio) and reduced EMI emissions.

OB3328(N) supports multiple dimming control schemes including internal analog, internal burst and external LPWM control. Combination of analog and burst mode dimming is available to achieve extended dimming control range up to (4%~100%).

OB3328U is optimized for U-shaped CCFL lamp application.

Features:

- Full bridge controller (2N+2P MOSFET configuration)
- External programmability of the key parameters
- High precision reference and frequency control
- Flexible wide range dimming control
 - Internal analog, burst and external LPWM for wide range dimming control
 - Combined internal burst and analog dimming control
 - 0-3V DC voltage direct dimming without any additional components
 - Selective positive or negative dimming control
- Comprehensive Protection Coverage
 - IC supply under voltage lockout(UVLO)
 - Output over voltage protection(OVP)
 - Output over current protection(OCP)
- Available in DIP16、SOP16 and TSSOP16 packages,RoHS compliant

Applications:

LCD CCFL backlight system where high efficiency is required:

- LCD Monitor, LCD TV
- LCD flat panel display for instruments, automobile, and handheld devices and handheld devices

Typical Application:

