# Intelligent Lighting Family Product Guide

| Part Number | Description | Package(s) Available (Lead-free) | Page No. |
|---|---|---|---|
| **LED Backlight Controller ICs for NOTEBOOK / NETBOOK APPLICATIONS** | | | |
| OZ9956B | Six String LED Controller | 20 QFN | 7 |
| OZ9956C | White LED Backlight Controller | 20 QFN | 8 |
| OZ9960 | High Power LED Controller | 12 DFN, 16 SSOP | 9 |
| OZ9979 | Six String LED Controller with Phase-Shift Dimming, Internal MOSFET | 20 QFN | 10 |
| OZ9993 | Low Cost White LED Controller | 6 SOT-23 | 11 |
| **LED Backlight Controller ICs for MONITOR APPLICATIONS** | | | |
| OZ9902 | Dual Channel High Power LED Driver | 24 SOP, SSOP | 12 |
| OZ9906 | Six String LED Controller | 28 E-TSSOP, SOP | 13 |
| OZ9908 | Eight String High Power LED Controller | 48 LQFP, 40 QFN | 14 |
| OZ9961 | Six String LED Controller | 20 E-TSSOP, SSOP | 15 |
| OZ9967 | Six String High Power LED Controller | 28 SOP, SSOP, TSSOP | 16 |
| OZ9997 | LED Backlight Controller | 24 E-TSSOP, QFN, SOP | 17 |
| OZ9998/ OZ9998A | Eight String High Power LED Controller | 24 E-TSSOP, QFN, SOP | 18 |
| OZ9998B | Four String High Power LED Controller | 16 E-SOP, E-TSSOP, PDIP, QFN, SOP | 19 |
| OZ9998H | Four String High Power LED Controller | 16 E-SOP, E-TSSOP, PDIP, SOP | 20 |
| GB98A | Four String High Power LED Controller | 16 E-SOP, PDIP, SOP | 21 |
| **LED Backlight Controller ICs for TV APPLICATIONS** | | | |
| OZ9902 | Dual Channel High Power LED Driver | 24 SOP, SSOP | 12 |
| OZ9902C | Single Channel High Power LED Driver | 16 QFN, SOP | 22 |
| OZ9904 | Four String LED Controller | 28 SOP, SSOP | 23 |
| OZ9904A | Eight String LED Controller | 40 QFN | 24 |

# OZ9902C

## FEATURES

- Constant current or voltage output
- Drives one string of high power LEDs
- 0% to 100% PWM dimming control
- Analog dimming control
- Constant operation frequency
- Power MOSFET over-current protection
- Over-voltage protection
- Output to return and Output to ground short circuit protection
- Output over load protection
- Thermal protection
- LED fault status output

## GENERAL DESCRIPTION

OZ9902C is a single channel, high power LED driver designed for LED backlight applications used in large-size LCD TVs.

The controller supports wide range, direct Pulse Width Modulation (PWM) dimming control and analog dimming control for LED string forward current.

## APPLICATIONS

- LCD TV

## APPLICATION DIAGRAM