

Oled Lighting Driver Ic Solomon Systech

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3D IC Integration and Packaging Led Lighting and Drivers Organic Light-emitting Materials and Devices IV EDN, Electrical Design News Organic Light-emitting Materials and Devices EDN Automotive Engineering International Handbook of Digital IC Applications IEEE/CHMT International Electronic Manufacturing Technology Symposium Consolidated Annual Reports Asia Electronics Industry Asian Sources Electronic Components Optoelectronics Circuits Manual Newark Electronics Electronic Display Devices Laser Focus World The Indian Digest Corporate Technology Directory Portable Design Applied Science & Technology Index *John H. Lau J Marcos Alonso Zakya H. Kafafi David L. Heiserman Milwaukee (Wis.) R. M. Marston Richard A. Perez V. V. Chitale*

a comprehensive guide to 3d ic integration and packaging technology 3d ic integration and packaging fully explains the latest microelectronics techniques for increasing chip density and maximizing performance while reducing power consumption based on a course developed by its author this practical guide offers real world problem solving methods and teaches the trade offs inherent in making system level decisions explore key enabling technologies such as tsv thin wafer strength measurement and handling micro solder bumping redistribution layers interposers wafer to wafer bonding chip to wafer bonding 3d ic and mems led and complementary metal oxide semiconductor image sensors integration assembly thermal management and reliability are covered in complete detail 3d ic integration and packaging covers 3d integration for semiconductor ic packaging through silicon vias modeling and testing stress sensors for thin wafer handling and strength measurement package substrate technologies microbump fabrication assembly and reliability 3d si integration 2 5d 3d ic integration 3d ic integration with passive interposer thermal management of 2 5d 3d ic

integration embedded 3d hybrid integration 3d led and ic integration 3d mems and ic integration 3d cmos image sensors and ic integration pop chip to chip interconnects and embedded fan out wlp

the book is organized in four chapters chapter 1 deals with an introduction to light and lighting as a power electronics engineer working on leds and lighting systems in general i think it is important for the reader to have the basic knowledge about lighting systems which i have tried to summarize in this chapter because of the extremely interesting possibilities of leds to generate different light colors chapter 1 includes a section related to the understanding of color quantification and measurement in different color spaces the chapter also includes several examples on light and color calculations in order to develop and implement a suitable led driver it is necessary to have a good knowledge about led behavior and characteristics thus chapter 2 aims at providing the reader with the most important issues related to led operation and modeling from a practical point of view the most common led structures and materials are presented in this chapter together with the most relevant electrical thermal and optical characteristics making special emphasis on those characteristics provided by led manufacturers in their datasheets special sections are dedicated to light dimming and color mixing the chapter is closed with a brief review of organic led oled technology which is another promising led technology nowadays chapter 3 is devoted to dc led drivers which are those led drivers intended to supply the led from a dc voltage source like a battery or a dc bus this chapter covers the three most relevant technologies that are being used to implement dc led drivers at the present time which are those based on linear regulators switched capacitor regulators and switching regulators the most relevant solutions to implement dc led drivers are reviewed from a practical point of view the chapter also reviews the most common control methods applied to dc led drivers examples are included by means of computer simulations based on ltspice which is a free but powerful spice based simulation software developed by former linear technologies company now part of analog devices the chapter ends with a section devoted to led configurations namely series parallel and matrix configurations which are employed to implement high power led lamps finally chapter 4 is dedicated to off line led drivers this is the denomination given to led drivers that are intended to operate from an ac grid voltage these are the most complicated led drivers since they usually require the implementation of a front end power factor correction pfc stage followed by a downstream dc dc converter to adapt voltage levels and provide regulated current to the led lamp the most important standards and regulations related to this type of led drivers are presented at the beginning of the chapter then single stage led drivers are studied which can be used as a stand alone off line led driver or as a first stage in a two stage off line led driver the highly relevant problem of requiring a large storage capacitance in single stage off line led drivers to cope with the double line frequency pulsating power originated from line voltage rectification is

addressed in this chapter finally integrated two stage off line led drivers are presented and studied as a solution to reduce the storage capacitance of off line led drivers aiming at using high reliability film capacitors instead of less reliable electrolytic capacitors Its spice simulation examples are also provided in this chapter to allow the reader to have a better idea about the design and operation of this type of led drivers

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