imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LX6523

www.Microsemi.con

HIGH PERFORMANCE CCFL CONTROLLER

PRODUCTION DATASHEET

DESCRIPTION

CCFL controller optimized for LCD-TV transient conditions. Furthermore a soft and other multi-lamp LCD display start feature provides more reliable systems. It particularly provides a cost lamp strike and allows effective control competitive solution for inverter applications.

» Microsemi

The controller provides a pair of adequate capacity to drive a push-pull. half bridge, or full bridge CCFL synchronization capability. inverter configuration with the addition of simple external circuitry.

the operating voltage for the output gate drive and bias to the internal control This allows a direct circuitry. connection of the controller to the system supply extending the voltage up to 27V without external regulators.

The lamp current regulation circuit comprises a simple and robust control narrow body surface mount packages in loop design with good regulation

The LX6523 is a high performance accuracy and dynamic response at off-PFC of the possible inverter start up surge current.

Lamp dimming operation is also well push-pull PWM drive signals with considered to facilitate convenient and flexible dimming control design with

In addition, reliable fault detection and protection functions are facilitated An on-chip regulator supplies both including open lamp, over voltage, short circuit, and over current protection. Furthermore, programmable striking frequency, programmable strike and protection timing, and fault indication are all built-in with the very compact chip design.

> The device is available in a SOIC the industrial temperature range.

IMPORTANT: For the most current data, consult MICROSEMI's website: http://www.microsemi.com

KEY FEATURES

- Push-Pull Output to Provide Low Cost Solution for Multiple Topology Configuration
- 0.6A Peak Source and Sink Drive Current
- 6V to 27V Power Rail operation (36V Absolute Maximum)
- On Chip Regulator with Under Voltage Lock Out Protection
- Soft Start Control
- Programmable Strike Time, Fault Time, Strike Frequency, and Burst Dimming Frequency
- Burst Dimming Brightness Control
- Provide Optimized Solution for Off **PFC Inverter Applications**

APPLICATIONS

- LCD-TV
- Multi-Lamp LCD Monitors
- CCFL, EEFL, FFL Backlight Systems

| PACKAGE ORDER INFO | | | THERMAL DATA |
|---|----------|--------------------------|---|
| T _A (°C) | D | Plastic SOIC 14 Pin | $\theta_{\rm JA} = 86 \ ^{\circ}{\rm C/W}$ |
| | | RoHS Compliant / Pb-free | THERMAL RESISTANCE-JUNCTION TO AMBIENT |
| -40 to 85 | LX6523ID | | Junction Temperature Calculation: $T_J = T_A + (P_D \times \theta_{JA})$. |
| Note: Available in Tape & Reel. Append the letters "TR" to the part number. (i.e. LX6523ID-TR) | | | The θ_{JA} numbers are guidelines for the thermal performance of the device/pc-board system. All of the above assume no ambient airflow. |



INFORMATION

Thank you for your interest in Microsemi[®] Analog Mixed Signal products.

The full data sheet for this device contains proprietary information.

To obtain a copy, please contact your local Microsemi sales representative. The name of your local representative can be obtained at the following link http://www.microsemi.com/contact/contactfind.asp

or

Contact us directly by sending an email to:

IPGdatasheets@microsemi.com

Be sure to specify the data sheet you are requesting and include your company name and contact information and or vcard.

We look forward to hearing from you.