

## **LS7642\_LS7642FO PRESS RELEASE**

### **Voltage Controlled Light Dimmers**

LSI/CSI announces two new innovative additions to its extensive line of Lighting Control ICs. Designated **LS7642** and **LS7642FO**, these new ICs have been designed for easy control via manual or uC interface.

An analog voltage at the control input directly determines the phase angle of the triac trigger pulse. For automated applications such as emulating dawn, daylight and dusk for environments such as chicken houses, the control voltage can be provided by the uC yielding accurate control of dimming patterns. For manual applications such as wall switches, the wiper of a sliding or rotary potentiometer can provide the control voltage. Turn-on and turn-off of illumination is accomplished automatically by uC signal, or manually by pushbutton or touch sense. For both turn-on and turn-off, the brightness is softly ramped up and ramped down, respectively, from the illumination set by the control voltage.

The **LS7642** powers up in the Off state and the **LS7642FO** powers up in the On state to the illumination set by the control voltage. The **LS7642FO** will be desirable in parts of the world where the AC power may be interrupted several times daily.

#### **Other features include:**

- Extension input for remote turn-on and turn-off.
- Controls high voltage lighting such as incandescent and halogen lamps.
- Controls low voltage lighting such as \*transformer-coupled halogen lamps  
\*Compatible with magnetic and virtually all electronic transformers.
- Controls **Fluorescents** and **CFLs** via dimming ballasts.
- Supply voltage: 5V.

**LS7642** and **LS7642FO** are available in RoHS compliant 8-Pin SOIC and DIP packages.