

## **Continuous Light Dimmers for High-Voltage Lighting and Transformer-Coupled Low-Voltage Lighting**

LSI/CSI introduces its newest line of full range light dimmer ICs, **LS7634\_LS7635**. These new ICs incorporate state of the art technology advances that make them compatible with virtually all magnetic and electronic transformers used to interface with low-voltage lighting while also making the ICs impervious to AC Mains noise. The improved performance of these new ICs, along with the energy savings and convenience, come with the bonus of lower unit price and reduced peripheral circuitry cost.

**LS7634\_LS7635** can be used in any 2-wire (wall dimmer) or 3-wire (plug-in dimmer) lighting control application and are compatible with Touch or Pushbutton activation.

### **LS7634\_LS7635 include the following features:**

- Powers up in Off condition. “FO” version powers up in “Full On” condition.
- Selectable Lighting Memory (LM) for Short activation.
- Short activation switches lighting intensity from On to Off or from Off to prior On if LM has been selected or Maximum if LM is not selected.
- Off to On transition occurs at a fixed slew rate. Slew rates differ for 50Hz and 60Hz.
- Selectable Direction Reversal (DR) for Long activation.
- Long activation results in continuous dimming toward Maximum or Minimum. If Long activation is removed and reapplied, the dimming direction reverses if DR has been selected and doesn't change if DR is not selected.

### **LS7634\_LS7635 differ as follows:**

- LS7634 cycles past Maximum and Minimum while Long activation is maintained.
- LS7635 stops at Maximum and Minimum when Long activation reaches those extremes. Direction automatically reverses when Long activation is removed and reapplied at those extremes.

Operating voltage is 5V. The LS7634\_LS7635 are available in RoHS Compliant 8-pin DIP and 8-pin SOIC packages.