

LS7636_LS7637 PRESS RELEASE

New Reverse Phase (Trailing-Edge) Dimmer ICs Eliminate RFI

LSI/CSI announces the addition of four innovative Reverse Phase Dimmers, **LS7636**, **LS7636FO**, **LS7637** and **LS7637FO**, to its extensive line of Lighting Control ICs. According to Pete Visconti, VP Sales and Marketing, "A huge advantage is gained by our customers using LSI's ICs employing Reverse Phase (Trailing-Edge) technology driving FETs or IGBTs. These new ICs overcome the disadvantages associated with triac-based (Leading-Edge) dimmers. Dimmers made with these new ICs eliminate the RFI generated by triac-based light dimmers that can interfere with a nearby electronics such as an AM radio."

A Reverse Phase Dimmer IC turns on the drive transistors at the zero-crossover point of each half cycle, enabling a slow current rise. Current is terminated later during the half-cycle depending on the desired dimming level. RFI generation is minimized since power to the load is not turned on abruptly as with leading-edge (triac-based) dimmers eliminating the need for external filtering. Another important benefit is that these Dimmer ICs can drive **any** Electronic Transformer.

The LS7636 ICs automatically reverse direction when reaching maximum or minimum intensity while the LS7637 ICs stop dimming when reaching maximum or minimum intensity. LSI's **LS7636FO** and **LS7637FO** versions power up to **Full-On** intensity when AC power is first applied.

All of these ICs have three selectable operating modes. These modes allow the load to be turned on to maximum intensity or to a previous set memory level in response to a short pushbutton application and to continue dimming in the same direction or reverse with each new long pushbutton application.

Other features include:

- Soft turn-on and soft turn-off.
- Local or remote Pushbutton control. Local Touch control.
- Interfaces with N-Channel FETs or IGBT power devices to drive output loads.
- Two application configurations available:
 1. A single output driver version for moderate power loads.
 2. A dual output driver version for large power loads.
- Over Current Sense Input shuts down the output if the voltage across a fractional-Ohm feedback resistor exceeds an internal threshold.
- 50Hz/60Hz AC line frequency
- 115VAC/220VAC operation
- Supply voltage: 12V

LS7636, **LS7636FO**, **LS7637** and **LS7637FO** are available in 8-Pin DIP and SOIC packages