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Features:

- CMOS Technology
- Drives Segment or Active Matrix Displays
- 16 to 47 Volt Output Drive (V_{DD} to V_{EE})
- Selectable Output Shift Direction and Polarity
- 3 Output Switching Modes
- Cascadable (4 Maximum)

Applications:

- eBooks / eReaders
- Electronic Shelf Labels / Point Of Purchase Displays
- Mobile Phones / Portable Hand Held Devices
- Smart Cards
- Signage

Ordering Information

Part No.	Description
MXEI2300WB	Gold Bumped Die / Wafer Form
MXEI2300XB	Gold Bumped Die / Waffle Pack

General Description

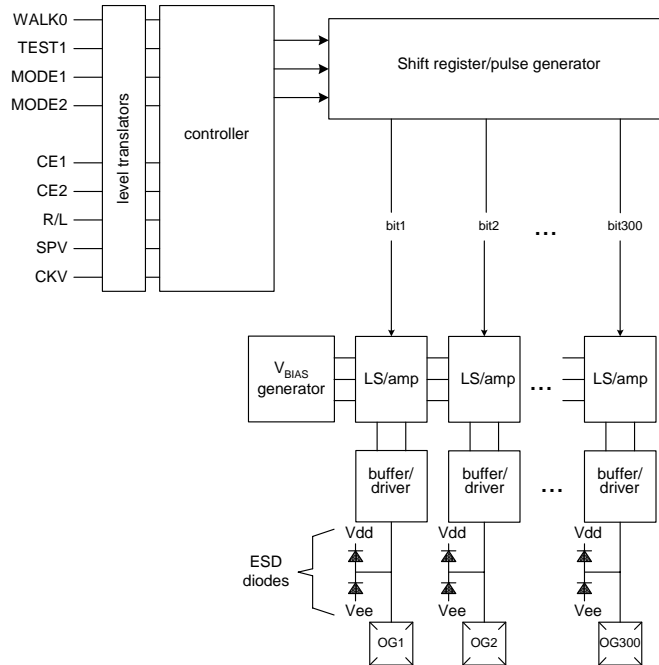
The MXEI2300 is a 300 bit serial shift register, level translator, and high voltage buffered driver. The shift register is 'seeded' by the CE1, CE2, R/L, SPV, and CKV inputs.

The output pulse pattern is selected with the MODE1 and MODE2 inputs. A one pulse, continuous two pulse, jumping two pulse, or no pulse pattern can be generated. Pulse polarity is selected with the WALK0 input.

The register output bits are amplified rail-rail from V_{EE} to V_{DD} , and the output strength of the buffer drivers is modulated by the V_{bias} generator. This allows the OGN outputs to be continuously optimized for peak performance while minimizing transients over a wide operating range.

The MXEI2300 is designed to operate over a temperature range of -40°C to $+85^{\circ}\text{C}$, and is available as Gold Bumped Die in Wafer Form or Waffle Pack.

Block Diagram



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Specification: MXEI2300
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