

The Avago Advantage



Applications Solutions

Avago Technologies Solutions for **Elevator Control**



Your Imagination, Our Innovation
Sense • Illuminate • Connect

Avago Technologies Solutions for Elevator Control

Avago offers multiple products ideal for elements of an elevator control system. The motor controls require IGBT gate drivers and isolation amplifiers for the variable current and voltage rectifiers and inverters used in controlling the drive and door motors. Optical encoders are used in the door mechanisms, and digital optocouplers can be used to electrically isolate input lines into the control unit. Inside the elevator cars, illumination LEDs such as the Moonstone Series LEDs can be used for general illumination and ChipLEDs can be used for backlighting and indicator illumination while different size seven-segment displays are available for control panel indicators such as floor level.

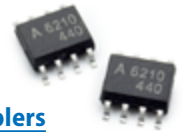


IGBT Gate Drivers

Avago gate drive optocouplers provide isolated high current gate driver for IGBTs and MOSFETs. These gate drive optocouplers come in wide range of output current from 0.4A to 5A, and selected parts with integrated features such as Active Miller Clamp, under voltage lockout, fault status feedback and de-saturation detection.

Featured Products

- (Active Miller Clamp, rail-to-rail output voltage) Isolated Gate Driver
- (Fault status feedback, automatic fault reset) Isolated Gate Driver

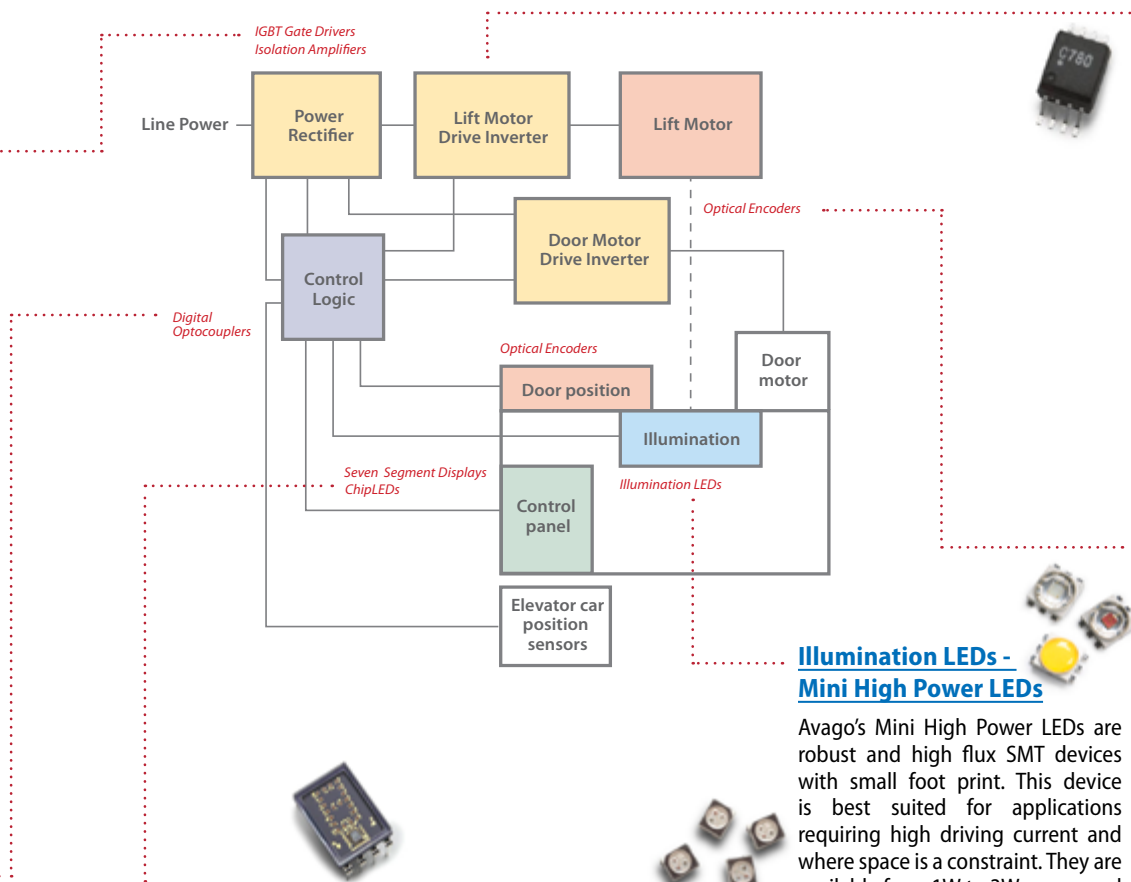


Digital Optocouplers

Avago optocouplers provide low power and multi-channels isolation without compromising high voltage insulation or noise isolation. They support wide temperature and wide supply voltage ranges and are ideal for extreme environments. They allow high speed data transmission (up to 50MBd) with low propagation delay (<22ns) and pulse width distortion (<2ns) performance.

Featured Products

- Very high speed logic gate optocoupler
- Multi-Channel and Bi-Directional, 15 MBd (typ) Digital Logic Gate Optocoupler
- Ultra low-power CMOS optocouplers



7.6/10/13/14.2mm Seven Segment Displays

The 10 mm (0.4 inch) three digit slim font seven segment displays incorporate a new slim font character design with specially mitered segments to give a fuller appearance to the illuminated character. The 7.6 mm (0.3 inch) LED seven segment displays are designed for viewing distances up to 3 metres (10 feet).

Avago offers several seven segment displays to meet a variety of elevator control needs.

Featured Products

- 7.6mm Micro-Bright seven segment displays
- 10 mm three digit slim font with 2-colours seven segment displays
- Single and dual digit displays.
- 4 digit seven segment display
- 10mm and 13mm slim font seven segment displays
- 14.2 mm seven segment displays

ChipLEDs for Backlighting & Status Indicators

Avago Technologies offers an extensive range of high quality ChipLEDs which are small in size, highly efficient and low power consumption; to meet demands for virtually any surface mount lighting requirement.

Featured Products

- Surface-mount ChipLEDs – 0603 (1.6 x 0.8 mm), blue & green, 0805 (2.0 x 1.2 mm), 1206 (3.2 x 1.6 mm), right angle, reverse mount, multi-color, bi-color surface mount ChipLEDs.

Illumination LEDs - Mini High Power LEDs

Avago's Mini High Power LEDs are robust and high flux SMT devices with small foot print. This device is best suited for applications requiring high driving current and where space is a constraint. They are available from 1W to 3W power and a variety of color to meet the diverse market needs. Besides, options with high color rendering index are available (for white colors only).

A wide variety of secondary lenses are available from 3rd party lenses suppliers.

Featured Products

- 1W mini high power LED (cool white / neutral white / warm white)
- 3W mini high power LED (cool white / neutral white / warm white)
- 3W mini high power LED with high color rendering index (cool white / neutral white / warm white)

Illumination LEDs - High Power LEDs

Avago's High Power LEDs are robust and high-performance devices that have largest installed base in the industry. They are available from 1W to 3W power in a variety of packages and color. A wide variety of secondary lenses are available from 3rd party lens suppliers.

Featured Products

- 1W high power LED (cool white / neutral white / warm white)
- 3W high power LED (cool white / neutral white / warm white)

Isolation Amplifiers

Avago isolation amplifier optocouplers provide high precision, stability, and common mode rejection for current and voltage sensing applications without compromising high noise or magnetic field immunity.

Featured Products

- Miniature Isolation Amplifiers
- Optically Isolated Sigma-Delta
- Modulator (External clock) with Digital Output

Optical Encoders

Avago offers a wide range of both absolute and incremental optical encoders with a choice of single or multi-channels, resolution, accuracy, operating temperature, and packaging. This allows a designer to find the optimal encoder solutions and maximize their system value.

Featured Products

- Reflective optical encoders
- Incremental encoders

Illumination LEDs - Moonstone™ High Power LEDs

Moonstone High Power LEDs are high-performance, energy-efficient devices that can handle high-thermal and high-driving current. They are available from 1/2W to 3W power, a variety of packages and color to meet most design requirements and lumens range of 15 to 161.

Featured Products

- ½ W high power LED (cool white / warm white)
- 1W high power LED (cool white)
- 1W high power LED (warm white)
- 3W high power LED (cool white / warm white)

Your Imagination. Our Innovation



Avago Technologies is a leading designer, developer and global supplier of a broad range of analog, mixed signal and optoelectronics components and subsystems with a focus in III-V compound semiconductor design and processing. Backed by an extensive portfolio of intellectual property, Avago products serve three primary target markets: wireless communications, wired infrastructure, and industrial and other. Avago has a global employee presence and heritage of technical innovation dating back 50 years to its Hewlett-Packard roots.

Avago products serve three diverse end markets

Wireless Communications serving the smartphone/handset and Base Station infrastructure markets with leading-edge products that include:

- Power Amplifiers
- Front End Modules
- Film Bulk Acoustic Resonator (FBAR) Filters
- GPS/GLONASS LNAs
- Optical Finger Navigation
- LED Backlighting, Screen Illumination
- Ambient Light and Proximity Sensors

Wired Infrastructure for switches/routers, data centers, supercomputers and storage/servers with products that include:

- 168Gb Parallel Optic Arrays
- 28Gb SerDes ASICs in 28nm
- Storage Fibre Channel Transceivers
- QSFP+/SFP+ Ethernet Transceivers

Industrial and Other for alternative energy power generation, electronic sign and signals, automated manufacturing, automotive lighting, GPS/GLONASS navigation, motor inverter system, battery charging and management, infotainment systems and vehicle safety systems with products that include:

- Inverters
- Isolation and Digital Optocouplers
- Motion Control Optical & Magnetic Encoders
- Polymer Optical Fiber
- Indicator and Display LEDs



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