Lite-On is the leading global provider of optoelectronic components, with a comprehensive portfolio ranging from Visible LEDs, LED Numeric Displays, and Invisible Infrared Emitting and Detecting Components, Optical Sensors, Photocouplers and UV LEDs.

Offering one of the industry’s broadest product portfolios, Lite-ON’s optoelectronic based product solutions are used in a wide variety of applications covering various segments of the computer, communications, consumer, and industrial.

With a clear vision to be “Best Partner in Optoelectronic, Eco-Friendly and Intelligent Technologies”, we are driven to create extraordinary value and competitive advantage for our customers through innovative technology, superior exhibility manufacturing capabilities and professional services.

Together, we work to enrich lives and shape the future!

For more information, please visit us online at www.liteon.com/opto
UV LED

**LTPL-C16FUVM**
- CSP-ceramic based.
- Long life time.
- High efficiency.
- Low CO2 consumption.
- 365nm: 16mA at 20mA.
- 405nm: 21mA at 20mA.
- 405nm: 21mA at 20mA.
- *Resin/ink curing.*
- *Tough whitening.*
- *Mossy & ID detect.*
- *Forensic applications.*
- *Fluorescent light source.*

**LTPL-C16FUHV**
- CSP-ceramic based.
- High power.
- Higher Irradiance Density.
- Ceramic size package.
- Long life time.
- High efficiency.
- Low CO2 consumption.
- 390nm: 240mA at 7W.
- 405nm: 330mA at 7W.
- *Resin/ink curing.*
- *Toughening.*
- *Tough whitening.*
- *Mossy & ID detect.*
- *Forensic applications.*
- *Fluorescent light source.*

**LTPL-C014UVH**
- Ceramic based.
- High power dense lens.
- High WP%
- Long life time.
- High efficiency.
- Low CO2 consumption.
- 385nm: 760W/mW at 500mA.
- 405nm: 910W/mW at 300mA.
- 407nm: 1000W/mW at 600mA.
- *Resin curing.*
- *Toughening.*
- *Tough whitening.*
- *Security, bookbinder.*
- *Forensic applications.*
- *Fluorescent light source.*

**LTPL-C080UV**
- Ceramic based.
- Ultra-high power dense lens.
- High WP%
- Enable different W6 mixing.
- Long life time.
- High efficiency.
- Low CO2 consumption.
- 365nm: 2500W/mW at 7W.
- 385nm: 3200W/mW at 7W.
- *Resin curing.*
- *Toughening.*
- *Tough whitening.*
- *Mossy & ID detect.*
- *Forensic applications.*
- *Fluorescent light source.*

**Quartz UVC**

**LTPL-U06UVC**
- Ceramic based.
- Quartz Glass.
- High efficiency.
- Low CO2 consumption.
- 370nm: 2.2W at 20mA.
- 375nm: 12W at 100mA.
- 275nm: 30mA at 350mA.
- *Surface Sterilization.*
- *Air Purification.*

LIGHTING LED

**Low Power Lighting**

**LTW-K140**
- Top View PLCC Package.
- Efficacy: 122lm/W @0.2W.
- CRI: >90 for all CCTs.
- Wide selection of white CCTs.
- Compliance with ENERGY STAR Program Requirements for SSL Luminaires.
- Ultra-compact, high efficiency, lead-frame package.
- *Best flexibility for modules in need of luminance uniformity and circuit design.*
- *Ideal for lighting applications requiring a homogeneous distributed light source.*

**LTW-5630**
- Efficacy: 910lm/W @0.2W.
- CRI: 90 for all CCTs.
- CRI 90 is optional.
- Wide selection of white CCTs.
- Compliance with ENERGY STAR Program Requirements for SSL Luminaires.
- Ideal for lighting applications requiring a homogeneous distributed light source.
- *Linear light.*
- *Ceiling light.*
- *Bulb.*

**LTW-2835**
- Top View PLCC Package.
- Efficacy: 140lm/W @0.2W.
- CRI: >80 for neutral & cool white.
- Low RTH down to 0.5°C/W.
- M04 is the first Cool product available from Lirion providing solution to wide range of application.
- *Compliance with ENERGY STAR Program Requirements for SSL Luminaires.*
- *Reduce overall system cost by combining superior efficacy, ease of design and ease of manufacture.*
- *As plating of M04 offers excellent operability to soldering.*
- *Down light.*
- *Par lamp.*
- *Track light.*

**Mid Power Lighting**

**LTPL-P033**
- Top View PLCC Package.
- Efficacy: 200lm/W @0.5W.
- CRI: 70 for all CCTs.
- Compliance with ENERGY STAR Program Requirements for SSL Luminaires.
- Superior reliability and long life provides quality light.

**Mid Power Lighting**

**LTW-C035**
- Ceramic based.
- High power dense lens.
- Higher efficacy.
- *Val 136, (VAD5 is optional).*
- Professional LED for Horticulture, Fishing Lamp & Chip on Board.

**Chip on Board**

**LTPL-M08**
- Chip on Metal Core PCB.
- Efficacy: 140lm/W @0.4W.
- CRI: >80 for neutral & cool white.
- Low RTH down to 0.5°C/W.
- Compliance with ENERGY STAR Program Requirements for SSL Luminaires.
- Light extraction from small LEX 6.5 is ideal for small angle lighting.
- 3-sub-series 65, 10 and 18 Watt solution are available.
- Aus plating of M08 offers excellent operability to soldering.
- *Down light.*
- *Par lamp.*
- *Track light.*

**Chip on Board**

**LTPL-M04**
- Chip on Metal Core PCB.
- Efficacy: 190lm/W for 15W and 25W models.
- CRI: >80 for neutral & cool white.
- Low RTH, down to 0.5°C/W.
- M04 is the first Cool product available from Lirion providing solution to wide range of application.
- *Compliance with ENERGY STAR Program Requirements for SSL Luminaires.*
- *Reduce overall system cost by combining superior efficacy, ease-of-design and ease-of-manufacture.*
- *As plating of M04 offers excellent operability to soldering.*
- *Down light.*
- *Par lamp.*
- *Track light.*
**AUTOMOTIVE LED**

### SMD Chip LED

**LTSA-C150/170/191**
- Top View Chip.Led.
- Based on AEC-Q101D.
- Ultra-compact makes a high degree of expressiveness for use in high resolution, high density matrix applications.
- Wide viewing angle 130°
- Available in a variety of colors.
- Automotive Lighting.

### Mini Top LED

**LTSA-M67**
- Mini Top LED.
- White Diffused Lens.
- Based on AEC-Q101D.
- Designed for automotive applications.
- Available in a variety of color.
- View angle 120°
- Operation Temp 100°C.
- MSL 2a.
- Automotive interior solution.
- Switch, Dashboard, Sign Mark solution.

### SMD PLCC 2

**LTSA-T680**
- PLCC2.
- White Diffused Lens.
- Based on AEC-Q101D.
- Designed for automotive application.
- Available in a variety of color.
- View angle 120°
- Operation Temp 100°C.
- MSL 2a.
- Automotive interior solution.
- Automotive sign mark solution.

### SMD PLCC 4

**LTSA-E67R**
- PLCC4.
- White Diffused Lens.
- Based on AEC-Q101D.
- Designed for automotive application.
- Available in a variety of color.
- View angle 120°
- Operation Temp 100°C.
- MSL 2a.
- Automotive CHMSL.
- Automotive RCL.

### SMD PLCC 6

**LTSA-G6S**
- PLCC6.
- White Diffused Lens.
- Based on AEC-Q101D.
- Designed for automotive application.
- Available in a variety of color.
- View angle 120°
- Operation Temp 110°C.
- MSL 2.
- Junction Temp 125°C max.
- Automotive RCL.

### PLCC RGB

**LTSA-G683**
- TOP PLCC RGB.
- White Diffused Lens.
- Based on AEC-Q101D.
- Designed for automotive application.
- Available in full color.
- View angle 120°
- Operation Temp 110°C.
- MSL 2.
- Junction Temp 125°C max.
- Automotive interior solution.
- Switch, Dashboard, Sign Mark solution.

### SMD Power

**LTPA-P35**
- PLCC 1W.
- Anti-Self-Fuse Design.
- High Int.
- 80mA/350mA (PC Amber)
- 80mA/350mA (CCT 5000K).
- Available in full color.
- View angle 120°
- Junction Temp 115°C max.
- Automotive aftermarket eg: DRL, Reading light.
- Automotive Working Lamp.

### SMD Power

**LTPA-C35**
- Chip on Ceramic 3355.
- LED with optical lens.
- 155mA/350mA.
- 125mA/900mA (white color)
- Automotive aftermarket eg: DRL, Reading light.
- View angle 120°
- Operation Temp 125°C.
- MSL 2.
- Junction Temp 145°C max.
- Automotive DRL.
- Automotive Working Lamp.

### SMD Power

**LTPA-S38**
- Flip chip on Ceramic 3038.
- Low Voids Solution.
- 230mA/700mA (CCT 5000K).
- Slim Design.
- Stable Package for High Stability.
- View angle 120°
- Operation Temp 125°C.
- MSL 1.
- Junction Temp 150°C max.
- Automotive DRL, Fog Light.

### HEAD LAMP

**LTPA-C35**
- Slim Design.
- High Brightness.
- Based on AEC-Q101D.
- 1000lm@1200mA (CCT 5500K).
- 12V @1000mA.
- View Angle 110°
- Low Thermal Resistant.
- Low Voids Solution.
- MSL 1.
- Junction Temp 150°C max.
- Automotive Headlamp, High/Low Beam solutions.

### 5mm Lamp

**LTLA2R3**
- 5 mm round Lamp.
- High Brightness.
- Good Reliability.
- View angle ≤ 30 deg.
- Color: Red: 3600~160000lux.
- Yellow: 3000~16000lux.
- Motorcyle Lamp.
**LAMP LED**

- **CBI**
  - LTL-42M7NH51 / LTL42TB6NH51
    - Circuit Board Indicator.
    - Lateral light.
    - Good Reliability.
    - Ceramic based Single Color.
    - Dual Color.
    - Networking.
    - Home appliance.

- **4mm oval lamp**
  - LTL4HMYNADS / LTL4VMEPADS
    - 4 mm oval Lamp.
    - High Brightness.
    - Good Reliability.
    - Various kinds of intensity level solutions.
    - Wider view angle 120/60 deg.
    - Red/Yellow color.
    - Red: 1000mcd.

- **3mm oval lamp**
  - LTL3H3ERADS / LTL3H3GUADS
    - 3 mm oval Lamp.
    - High Brightness.
    - Good Reliability.
    - Wider view angle 100 deg.
    - Red/Blue/Green color.
    - Red: 2500mcd.
    - Green: 3800mcd.

- **White Lamp**
  - LTW-17HDU6J / LTW-17KDU3Z
    - 3 mm round Lamp.
    - 4 mm round oval Lamp.
    - 5 mm round oval Lamp.
    - High Brightness.
    - Good Reliability.
    - Good uniformity.
    - Wider view angle 14 deg 15 deg 25 deg.
    - 60 deg.
    - Benh White/Normal White.

- **SMT CBI**
  - LTL-M12YG1H300Q
    - Circuit Board Indicator.
    - Surface mounting.
    - Good Reliability.
    - RT refow.
    - Single Color.
    - Dual Color.
    - Networking.
    - Home appliance.

- **SMT lamp**
  - LTL942Y / LTL942E
  - LTL942TB / LTL942TG
    - SMT Lamp.
    - High Brightness.
    - Good Reliability.
    - Good uniformity.
    - View angle 120 deg.
    - Yellow: 4500mcd.
    - Blue: 4500mcd.

**LED DISPLAY**

- **SMD module**
  - LTM-0124M-01
    - Low power requirement.
    - Solid State reliability.
    - 16 x 32 array with X/Y select.
    - Multicolor displays are applicable to three bright colors.
    - 1/16 duty Dynamic scan method.
    - Control method: shift register.

- **RGB module**
  - LTM-1602SF
    - Low power requirement.
    - Solid State reliability.
    - 32x64 array with X/Y select.
    - Multicolor displays are applicable to three bright colors.
    - 1/8 duty Dynamic scan method.
    - Control method: shift register.

- **Dome matrix**
  - LTP-158FFKF / LTP-7588SF (RGB)
    - 16x16 matrix, x 2.
    - 8x8 matrix, x 2.
    - 1/16 duty dynamic scan method.
    - Wide viewing angle.
    - Low power requirement.
    - Excellent characters appearance.
    - High brightness & high contrast.

- **SMD display**
  - LTS-4812CJR-PM
    - 0.39 inch (0.0 mm) DIGIT HEIGHT.
    - Solid state reliability.
    - Continuous uniform segments.
    - Low power requirement.
    - Excellent characters appearance.
    - High brightness & high contrast.

- **RGB 4pin**
  - LTL750RGB8BJ / LTL760RGB8BJ
    - 5 mm 4pin RGB Lamp.
    - High Brightness.
    - Good Reliability.
    - RT refow.
    - Single Color.
    - Dual Color.
    - Networking.
    - Keyboard/Mouse.
LED DISPLAY

Reverse SMD display
LTS-4817CKR-P / LTS-4822CKR-P
- 0.39 inch (10.0 mm) DIGIT
- Height: Continuous uniform segments.
- Low power requirement.
- Excellent characters appearance.
- High brightness & high contrast.
- Wide viewing angle.
- Solid state reliability.
- Categorized for luminous intensity.
- Reflow able SMD display.
- Low free according to RoHS.
- Instrument Industry.

Channel Letter
LTM-1419W-01-LT
- No light spot, low decay and good consistency.
- Waterproof IP65 rating.
- High brightness & high contrast.
- Comes with several range of color temperature: 3000K - 3500K.
- 7000K - 8000K / 10000K / 14000K.
- Injection outer cover, beautiful and unique appearance.
- Warranty 15,000 hours.
- Channel letter lighting.
- Advertisement backlighting.

BLM Logo

LTB-Dxxx
- Excellent uniformity.
- Solid state reliability.
- Green product.
- Low profile thickness.
- High brightness & high contrast.
- Backlight module.

Sensor Touch Display
LTM-xxxx
- Alternative to mechanical buttons and sliders.
- Display value added and make circuit at system side simpler.
- Works with a variety of overlay materials and thicknesses.
- Total thickness can be reduced to less than 3 mm.
- sensor sensitivity can still be kept even with cover plate.
- no bending issue even with big size due to free from epoxy material.
- Home applicator.

PTIR

Photolink
LTDL-TA16XXX & RX16XXX
LTDL-TA25XXX & RX25XXX
LTDL-TA50XXX
- TX: FTU interface compatible.
- High speed optic signal transmission.
- Build-in LED driver.
- Low power consumption RX.
- High sensitivity optimized for red light. (650nm).

Infrared IR/PTIR
LTM-1650: LTE-4206
LTM-1650: LTE-4209
LTM-1650: LTE-4209
- Data Rates between 16Mbp s to 25Mbp s.
- Low power consumption for extended battery life.
- Build-in threshold control avoid noise interference.
- NIR & DIT.
- Audio system.

SMD IR/PTIR
LTDL-TA16XXX & RX16XXX
LTDL-TA25XXX & RX25XXX
LTDL-TA50XXX
- Data Rates between 16Mbp s to 25Mbp s.
- Low power consumption for extended battery life.
- Build-in threshold control avoid noise interference.
- NIR & DIT.
- Audio system.

5mm IR
LTDL-TA16XXX & RX16XXX
LTDL-TA25XXX & RX25XXX
LTDL-TA50XXX
- Data Rates between 16Mbp s to 25Mbp s.
- Low power consumption for extended battery life.
- Build-in threshold control avoid noise interference.
- NIR & DIT.
- Audio system.

Various SMD package also available
- Type Infrared Emitter and PTC Transistor.
- Compatible with infrared and vapor phase reflow solder process.
- Meet ROHS, Green Product.
- Proximity sensor.
- Touch screen.
- Reflective sensor control.
- CCTV.
- IP cam.
- Medical.

High Power IR
850mm:
LTDL-TA16XXX & RX16XXX
LTDL-TA25XXX & RX25XXX
LTDL-TA50XXX
- High power SMD Infrared Emitter (1.2-3.4W).
- High radiant intensity with low power consumption.
- High performance and quality.
- Various view angle. (15° to 60° for Security Camera).
- Various view angle. (15° to 60° for Security Camera).
- Various view angle. (15° to 60° for Security Camera).

OPTICAL SENSOR

Bowl Infrared LED
885nm: LTE-C249
940nm: LTE-C269
- Moderate Package. (Low Profile height of 1.6mm & 0.9mm In)
- High output: (9W/8W)
- No lens required to achieve narrow viewing angle.
- Eliminate cross talk.
- Peak wavelength: (850nm).

IrDA
885nm: LTE-C249
940nm: LTE-C269
- Various Package. (Low Profile height of 1.6mm & 0.9mm In)
- Mobile, Notebook, Industrial, Tablet, Remote control.

HSDL-3201
HSDL-3208
- 850nm. Data compliant low power 150kbits infrared transceiver.
- Minimum Package.
- Low Power Consumption.
- Medical Diagnostics.
- Water/Gas/Power Meter.
- Mobile, Notebook.
- Printers.
Transistor & Darlington Output (1 CH DIP4, DIP6; 2 CH DIP8; 4 CH DIP16)

LTJ-8X4
(AC input: 1CH B14, 2CH B24, 4CH B44)
AC input DIP6 LTJ-733
LTJ-8X7
(DC input: 1CH B17, 2CH B87, 4CH B87)
DC input DIP8 LTJ-792
CNY17 series, 4x25, 4x35, 4x45
LTJ-8X2
(AC input: 1CH B18, 2CH B86, 4CH B46)
LTJ-8X9*
(Darlington: 1CH B18, 2CH B85, 4CH B45)
LTJ-832**
LTJ-8X2-G
(Halogen Free solutions)**

- Current transfer ratio ratio (CTR): 20% to 300% of +5 V, 1 mA.
- VCE = 5 V (AC).
- High input-output isolation voltage: (VViso = 5,000 V).
- High speed transistors.
- Safety approval: UL / VDE.
- RoHS Compliance.
- ESD HBM.
- 1000V/MM2000V/MM2000V.
- Switching mode power supply.
- Home appliance.
- System appliances.
- Programmable logic.
- Circuit of different potentials and impedances.
- Darlington CTR: Max 600%.
- Safety approval: UL / VDE.
- 90% non-electrical.
- Safety approval: UL / VDE.

Half Pitch Transistor & Darlington

LTJ-2X4
(AC input: 1CH B14, 2CH B24, 4CH B44)
LTJ-2X7
(DC input: 1CH B17, 2CH B87, 4CH B87)
LTJ-2X15 (1CH Darlington)
LTJ-2X15 (1CH Darlington)
LTJ-2X2-G (Halogen Free solutions)**

- Current transfer ratio ratio (CTR): 20% to 400% of +5 V, 5 mA.
- VCE = 5 V (AC).
- High input-output isolation voltage: (VViso = 3,750 V).
- High speed transistors.
- Safety approval: UL / VDE.
- RoHS Compliance.
- ESD HBM.
- 1000V/MM2000V/MM2000V.
- Switching mode power supply.
- Home appliance.
- System appliances.
- Programmable logic.
- Circuit of different potentials and impedances.
- Darlington CTR: Max 600%.
- Safety approval: UL / VDE.

Dual Channel Transistor (SOP2)

LTJ-200 series

- Current transfer ratio ratio (CTR): 20% to 400% of +10 V, 5 mA.
- VCE = 5 V (AC).
- High input-output isolation voltage: (VViso = 3,750 V).
- High speed transistors.
- Safety approval: UL / VDE.
- RoHS Compliance.
- ESD HBM.
- 1000V/MM2000V/MM2000V.
- Switching mode power supply.
- Home appliance.
- System appliances.
- Programmable logic.
- Circuit of different potentials and impedances.
- Darlington CTR: Max 600%.
- Safety approval: UL / VDE.

PhotoTriac (DIP6)

LTJ-3023 / LTJ-3052
LTJ-3063 / LTJ-3083

- Random phase (30s / 30s).
- Zero crossing (30s / 30s).
- High input-output isolation voltage: (VViso = 5,000 V).
- Trigger current (IFT): < 5 mA.
- 110V working temperature.
- Safety approval: UL / VDE.

Mini Flat PhotoTriac (SO4)

MOC3023 / MOC3052
MOC3063 / MOC3083

- Random phase (100s / 100s).
- Zero crossing (30s / 30s).
- High input-output isolation voltage: (VViso = 5,000 V).
- Trigger current (IFT): < 5 mA.
- 110V working temperature.
- Safety approval: UL / VDE.

Solid State Relay (DIP8)

LTJ-2013 / LTJ-2223
LTJ-1223 / LTJ-1223
LTJ-2123 / LTJ-2223

- Random phase (XX23).
- Trigger current (IFT): < 10 mA.
- Zero crossing (XX23).
- High input-output isolation voltage: (VViso = 5,000 V).
- Trigger current (IFT): < 5 mA.
- Solid state relays.
- Temperature controls.

IGBT Gate Driver (SOP8)

LTJ-1555

- Gate driver 8-channel.
- Wide operating range: 10 to 50 VDC.
- Guaranteed performance over temperature range 40°C to 105°C.
- Safety approval: UL / VDE.
- IGBT/MOSFET gate drive.
- Uninterruptible power supply.
- Industrial inverter.
- PDP TV.

IGBT Gate Driver (DIP8)

LTJ-3126-NZ (2.5A, 15-30V)
LTJ-3115 (1A, 15-30V)
LTJ-3160 (1A, 15-30V)
LTJ-3160 (1A, 15-30V)

- 2.5A maximum peak output current.
- Rail to Rail output voltage.
- 500ns maximum propagation delay.
- 25V/ua minimum Common Mode Rejection (CMR) at VCM = 1500V.
- High input-output isolation voltage: (VViso = 5,000 V).
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