

A long-exposure photograph of a car's headlights and taillights at night, creating vibrant, curved light trails in shades of white, yellow, and red against a dark background. The image is positioned in the upper left quadrant of the cover.

**Lextar**

| 2018-2019  
| Automotive LED

*Smart Innovation, Amazing Life*

# About Lextar

Lextar Electronics Corporation is a global leader in LED solutions with a strategic advantage of integrating upper stream epitaxial, middle stream chip and package, and downstream automotive LED module and finished lighting products. Founded in 2008, Lextar is a subsidiary of AU Optronics, the leading TFT-LCD and solar PV manufacturer. With over 2,000 patents worldwide, Lextar is an innovator of product applications, which include: Automotive LED, LCD backlights, lighting, sensor and smart lighting solutions. Lextar currently has 2 manufacturing plants in Taiwan, and 3 in China including Suzhou, Xiamen and Chuzhou. Lextar revenue reached US\$403 million in 2017.

## Manufacturing Sites

### Taiwan

Hsinchu Site (Headquarters) / Chunan Site

### China

Chuzhou, Anhui  
Suzhou Industrial Park  
Xiamen Torch Hi-tech Industrial Development Zone

## Workforce

4,500 (as of Jul. 2018)

## Product

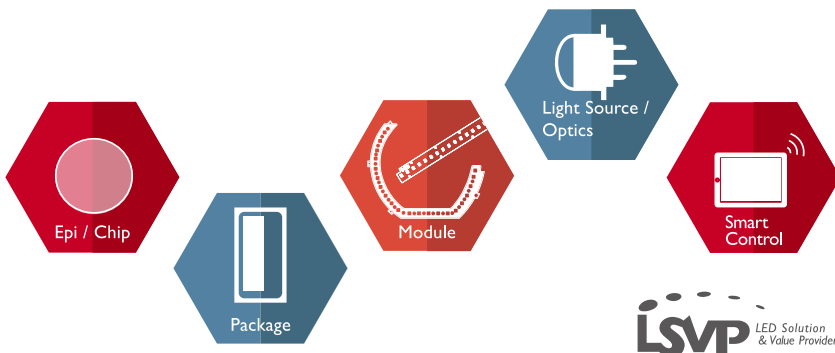
Epi / Chip / Package / Automotive Component  
and Module / Lighting Product / Light Module

## Revenue

\$403 million USD

## Capital

\$187 million USD



# Headlamp (High/Low Beam)



## Core

- Ceramic package
- Non-notched emitting area



	PC20N04	PF06N01	PF09N05
Dimensions	2.1 x 1.7 x 0.75 mm	3.2 x 3.8 x 0.75 mm	2.0 x 5.2 x 0.75 mm
Rated Current	1000 mA	1000 mA	1000 mA
Flux	330 lm	660 lm	1000 lm
Thermal Resistance	4 °C/W	2.5 °C/W	1.6 °C/W
Max Current	1200 mA	1200 mA	1200 mA
Max Junction Temperature	150 °C	150 °C	150 °C

## Core L

- Ceramic package
- Non-notched emitting area
- Separate thermal and electric pad design



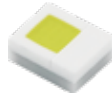
	PF06N03	PF09N01	PF12N04
Dimensions	2.0 x 5.2 x 0.75 mm	2.0 x 5.2 x 0.75 mm	2.0 x 7.0 x 0.75 mm
Rated Current	1200 mA	1200 mA	1200 mA
Flux	840 lm	1260 lm	1680 lm
Thermal Resistance	2.3 °C/W	1.4 °C/W	1.05 °C/W
Max Current	1500 mA	1500 mA	1500 mA
Max Junction Temperature	150 °C	150 °C	150 °C

# Daytime Running Lamp (DRL)



## Core

- Ceramic package
- Compact design for light guide

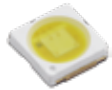


PC20N04

Dimensions	2.1 × 1.7 × 0.75 mm
Rated Current	1000 mA
Flux	330 lm
Thermal Resistance	4 °C/W
Max Current	1200 mA
Max Junction Temperature	150 °C

## 3030E

- Economic design for various applications
- Low thermal resistance



PC33N26

Dimensions	3.2 × 3.0 × 0.6 mm
Rated Current	350 mA
Flux	120 lm
Thermal Resistance	15 °C/W
Max Current	500 mA
Max Junction Temperature	150 °C

## 3030E

- Economic design for various applications
- Low thermal resistance



PC33R46

Dimensions	3.2 x 3.0 x 0.6 mm
Rated Current	350 mA
Flux	58 lm
Thermal Resistance	15 °C/W
Max Current	500 mA
Max Junction Temperature	150 °C



## 3528 PLCC6

- Standard PLCC6 footprint compatible



PC35R23

Dimensions	3.5 x 2.8 x 1.9 mm
Rated Current	140 mA
Flux	22 lm
Thermal Resistance	40 °C/W
Max Current	200 mA
Max Junction Temperature	125 °C

## 3528 PLCC4

- Standard PLCC4 footprint compatible



PC35R14

Dimensions	3.5 x 2.8 x 1.9 mm
Rated Current	50 mA
Flux	9.5 lm
Thermal Resistance	45 °C/W
Max Current	70 mA
Max Junction Temperature	125 °C

# Indicator (Turn Signal)

## Core

- Ceramic package
- Compact design for light guide



PC20A03

Dimensions	2.1 x 1.7 x 0.75 mm
Rated Current	1000 mA
Flux	190 lm
Thermal Resistance	4 °C/W
Max Current	1200 mA
Max Junction Temperature	150 °C



## 3030E

- Economic design for various applications
- Low thermal resistance



PC33A18

Dimensions	3.2 x 3.0 x 0.6 mm
Rated Current	350 mA
Flux	90 lm
Thermal Resistance	15 °C/W
Max Current	450 mA
Max Junction Temperature	125 °C

## 3528 PLCC4

- Standard PLCC4 footprint compatible



PC35A22

Dimensions	3.5 x 2.8 x 1.9 mm
Rated Current	50 mA
Flux	15 lm
Thermal Resistance	60 °C/W
Max Current	70 mA
Max Junction Temperature	125 °C

## 3030E

- Economic design for various applications
- Low thermal resistance



PT30Z54

Dimensions	3.2 x 3.0 x 0.6 mm
Rated Current	350 mA
Flux	120 lm
Thermal Resistance	15 °C/W
Max Current	400 mA
Max Junction Temperature	125 °C



## 3528 PLCC4

- Standard PLCC4 footprint compatible



PC35H19

Dimensions	3.5 x 2.8 x 1.9 mm
Rated Current	50 mA
Flux	22 lm
Thermal Resistance	45 °C/W
Max Current	70 mA
Max Junction Temperature	125 °C

## 3528 PLCC6

- Multicolor design with RGB chip in one



PC35X26

Dimensions	3.5 x 2.8 x 1.4mm
Rated Current	20 mA
Flux	R-800mcd/G-1500mcd/B-300mcd
Thermal Resistance	130 °C/W
Max Current	40 mA
Max Junction Temperature	125 °C



## 3528 PLCC2

-Standard PLCC2 footprint compatible



PC35A31



PC35B32

Dimensions	3.5 × 2.8 × 1.9 mm	3.5 × 2.8 × 1.9 mm
Rated Current	20 mA	20 mA
Flux	950 mcd	400 mcd
Thermal Resistance	130 °C/W	130 °C/W
Max Current	30 mA	30 mA
Max Junction Temperature	125 °C	125 °C



PC35G30



PC35R29



PC35N33

Dimensions	3.5 × 2.8 × 1.9 mm	3.5 × 2.8 × 1.9 mm	3.5 × 2.8 × 1.9 mm
Rated Current	20 mA	20 mA	20 mA
Flux	2400 mcd	800 mcd	1600 mcd
Thermal Resistance	130 °C/W	130 °C/W	130 °C/W
Max Current	30 mA	30 mA	30 mA
Max Junction Temperature	125 °C	125 °C	125 °C



# Automotive Display Backlight



## 3014

- High efficiency
- Low thermal resistance



PT30WA0

PT30AA1

Dimensions	3.0 x 1.4 x 0.6 mm	3.0 x 1.4 x 0.6 mm
Rated Current	80 mA	80 mA
Flux	32.5 lm	29.7 lm
Thermal Resistance	20 °C/W	20 °C/W
Max Current	150 mA	150 mA
Max Junction Temperature	120 °C	120 °C

## 4014

- High efficiency
- Low thermal resistance



PT40W60

PT40A65

Dimensions	4.0 x 1.4 x 0.6 mm	4.0 x 1.4 x 0.6 mm
Rated Current	80 mA	80 mA
Flux	33.5 lm	31 lm
Thermal Resistance	20 °C/W	20 °C/W
Max Current	150 mA	150 mA
Max Junction Temperature	120 °C	120 °C

# Detecting Module



## VCSEL 3535

- Vertical-cavity surface-emitting laser technology
- Narrow spectral width (< 1nm typ.)
- 3D depth assistance

PV88M94 V1



PV88M94 V2



	PV88M94 V1	PV88M94 V2
Dimensions	3.5 × 3.5 × 1.77mm	3.5 × 3.5 × 1.77 mm
Rated Current	1200 mA	3000 mA
Radiant Power	800 mW	1900 mW
View Angle	60x45/72x55/90x60/100x80	60x45/72x55/90x60/100x80
Wavelength	940 nm	940 nm
Forward Voltage	2.2	2.1

## 3535 Emitter

- High efficiency
- Double stack
- Low thermal resistance

PR88F04











PR88F14



	PR88F04	PR88F14
Dimensions	3.5 × 3.5 × 2.5 mm	3.5 × 3.5 × 2.5 mm
Wavelength	850 nm	940 nm
Rated Current	1000 mA	1000 mA
Radiant Power	1340 mW	1040 mW
Thermal Resistance	10 °C/W	10 °C/W
Max Current	1500 mA	1500 mA
Max Junction Temperature	140 °C	140 °C

# LED Product Overview

Product	Headlamp	DRL	RCL/CHMSL	Indicator	Illumination	Display Backlight	Detecting
 Core L Series	<ul style="list-style-type: none"> <li>○PF06N03</li> <li>○PF09N01</li> <li>○PF12N04</li> </ul>						
 Core Series	<ul style="list-style-type: none"> <li>○PF06N01</li> <li>○PF09N05</li> </ul>	○PC20N04		○PC20A03			
 3030E		○PC33N26	○PC33R01	○PC33A18			
 3528 PLCC6			○PC35R23		●PC33N26		
 3528 PLCC4			○PC35R14	○PC35A22	○PC35H19		
 3528 PLCC2					<ul style="list-style-type: none"> <li>○PC35N33</li> <li>○PC35R29</li> <li>○PC35B32</li> <li>○PC35A31</li> <li>○PC35G30</li> </ul>		
 3014/4014						<ul style="list-style-type: none"> <li>○PT30WA0</li> <li>○PT30AA1</li> <li>○PT30W60</li> <li>○PT30A65</li> </ul>	
 VCZEL 3535/3535							<ul style="list-style-type: none"> <li>●PR88F04</li> <li>●PR88F14</li> <li>●PV88M94V1</li> <li>●PV88M94V2</li> </ul>

## Production Site

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### T01 Hsinchu Site / Headquarters

No. 3, Gongye E, 3rd Road, Hsinchu Science Park,  
Hsinchu 30075, Taiwan

### T05 Chunan Site

No.1, Keyi Street, Kuan Yuan Science Park,  
Chunan Township, Miaoli County 35059, Taiwan

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Tel : +886-3-565-8800

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### S01 Suzhou Site

No.259, Changyang Street, Suzhou Industrial Park,  
Suzhou, JiangSu Province 215024, China

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Tel : +86-512-8555-8800

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### X01 Xiamen Site

2F, P11, Building, No.3089, XiangAn North Road,  
XiangAn Branch, Torch Hi-tech Industrial  
Development Zone, Xiamen City,  
Fujian Province 361101, China

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Tel : +86-592-375-8800

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### C01 Chuzhou Site

No.2168, Qingliu East Road,  
Suzhou-Chuzhou Modern Industrial Park, Chuzhou City  
Anhui Province 239001, China

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Tel : +86-550-259-8800

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## Sales Office

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### S01 Suzhou Site

No.259, Changyang Street, Suzhou Industrial Park,  
Suzhou, JiangSu Province 215024, China

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### Shenzhen Office

Room 1136, Dongming Mansion, Mingkang Road,  
Minzhi Street, New Longhua District, Shenzhen City, 518000, China

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