

Lextar

Smart Lighting Amazing Life

2016 LED Lighting Component





About Lextar

Lextar Electronics Corporation is a global leader in LED solutions with a strategic advantage of integrating epitaxial, chip, package and LED lighting applications. Founded in May 2008, Lextar is a subsidiary of AU Optronics, the leading TFT-LCD and solar PV manufacturer. With nearly 2,000 patents worldwide, Lextar is an innovator of product applications, which include: LCD backlights, light modules, luminaire, and various lighting solutions. To further stretch its market advantage, Lextar acquired LightHouse Technology Inc. in 2010 and Wellpower Optronics in 2013. It currently has 2 manufacturing plants in Taiwan and 2 in China. Lextar's revenue in 2015 reached US\$ 474 million.

Manufacturing Sites

TAIWAN

Hsinchu Site

T01 Headquarters
Epi / Chip /
R&D Center

Chunan Site

T05
Chip / Package

CHINA

Suzhou Industrial Park

S01
Epi / PKG / SMT / Light Module /
Lighting Product Assembly /
R&D Center

Xiamen Torch Hi-tech Industrial Development Zone

X01
SMT



As an LSVP, Lextar has integrated solutions adding value to every customer's products. From epitaxial and chip, to package, SMT and lighting applications, Lextar offers total solutions of optics, mechanics, power and thermal system. Our LSVP means time-to-market and value added service to our clients.

LSVP makes us your valuable partner.

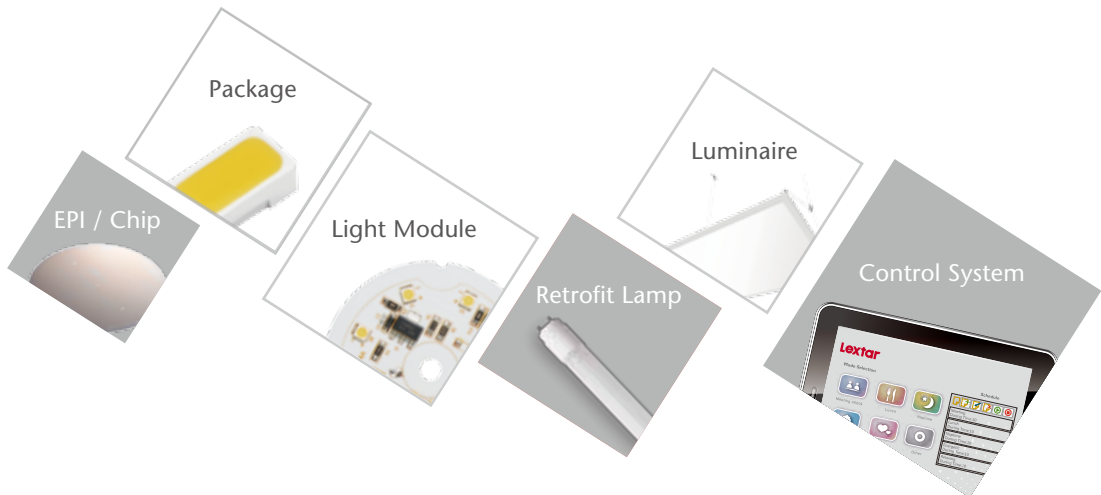
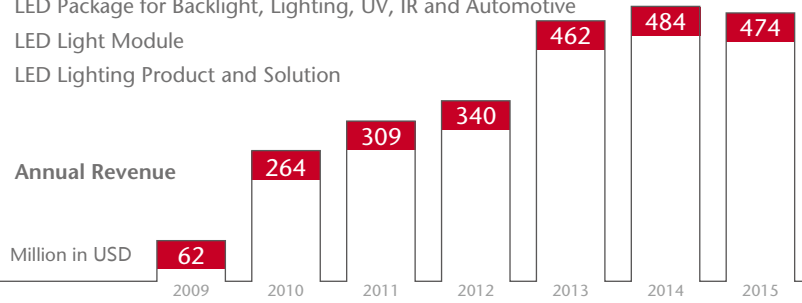
Headquarters
Hsinchu Science Park,
Taiwan

Capital
\$200 million USD

Number of Employees
over 3,600 (as of Dec. 2015)

Products
LED Chip
LED Package for Backlight, Lighting, UV, IR and Automotive
LED Light Module
LED Lighting Product and Solution

Annual Revenue



SMD LED Low-Mid Power Series

2016

- LM-80 65mA in progress
- Small size with high lumen output
- ANSI binning (2700 ~ 6500K)



2.0 × 1.6 × 0.55 (mm)

	Model Name	Power (W)	CCT (K)	CRI		Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
				Min	Max	Min	Max	Typ	Max	
NEW	PC20H01.0	0.2	2600~7000	80	20	30	3.15	3.4	65	
NEW	PC20U06.0	0.2	2600~4300	90	18	26	3.15	3.4	65	

3014

- LM-80 certified LED
- Small size with high lumen output
- Delivers uniform light
- Best performance and cost for linear application



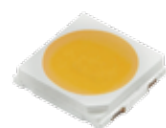
* 3.0 × 1.4 × 1.2 (mm) 3.0 × 1.4 × 0.65 (mm)

	Model Name	Power (W)	CCT (K)	CRI		Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
				Min	Max	Min	Max	Typ	Max	
	*PT30A02.0	0.06	2600~7000	80	6.2	8.2	2.9	3.3	20	
	*PC30U11.0	0.06	2600~4000	90	5	7	2.9	3.3	20	
	PC30H08.1	0.2	2600~7000	80	22	30	3.1	3.3	65	
UPGRADE	PC30H08.3	0.2	2600~7000	80	24	34	3.05	3.3	65	
	PC30U12.0	0.2	2600~4000	90	18	26	3.1	3.3	65	

* Side view available

3030

- LM-80 certified LED
- Low thermal resistance
- Simple design to pair with optical lens
- Best cost competitive solution



3.2 × 3.0 × 0.6 (mm)

	Model Name	Power (W)	CCT (K)	CRI		Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
				Min	Max	Min	Max	Typ	Max	
	PC33H10.0	0.2	2600~7000	80	25	36	2.85	3.1	65	
	PC33H23.0	0.2	2600~7000	80	25	36	2.88	3.15	65	
NEW	PC33H23.1	0.2	2600~7000	80	28	40.5	2.83	3.1	65	
NEW	PC33H23.2	0.2	2600~7000	80	31.5	45	2.78	3.05	65	
NEW	PC33U28.2	0.2	2600~4200	90	25	36	2.78	3.05	65	

5630

- LM-80 certified LED with excellent lifetime >100,000hrs
- High efficacy up to 210 lm/W
- One form factor with various lumen options
- Best solution for premium indoor lighting
- Lower system cost by using linear driver (PC56H14 design with HV chip)



5.6 × 3.0 × 0.6 (mm) 5.6 × 3.0 × 0.77 (mm)



Model Name	Power (W)	CCT (K)	CRI		Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	Typ	Max	
PC56H01.0	0.4	2600~7000	80		40.5	60	3.05	3.3	120
PC56U08.0	0.4	2600~4200	90		36	54	3.05	3.3	120
PC56H10.0	0.5	2600~7000	80		60	79.8	3.1	3.3	150
NEW PC56H19.0	0.2	2600~7000	80		25	36	2.88	3.15	65
NEW PC56H19.1	0.2	2600~7000	80		28	40.5	2.83	3.1	65
NEW PC56H19.2	0.2	2600~7000	80		31.5	45	2.78	3.05	65
PC56H14.0	0.4	2600~7000	80		49.5	66	20	22	20

Multi – Color LED

5050 RGB in 1

- Integrated mix color solution
- Lead frame package with individual 6 pins
- High sensitivity for red, green and blue light



5.0 × 5.0 × 1.6 (mm)

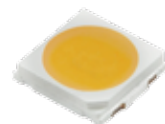


Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Typ	Max	
PC50XA1.Y	RGB IN 1	R : 620~630	400	700	1.7	2.3	20
		G : 520~530	930	1500	2.8	3.4	20
		B : 455~465	300	530	2.8	3.4	20

SMD LED High Power Series

3030 - Eco

- LM-80 certified LED
- Low thermal resistance
- Simple design to pair with optical lens
- Best cost competitive solution
- Lower system cost by using linear driver (PC33H05/H12/H13 design with HV chip)



3.2 × 3.0 × 0.6 (mm)

Model Name	Power (W)	CCT (K)	CRI		Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	Typ	Max	
PC33H07.0	1.0	2600~7000	80		110	140	6.3	6.6	150
NEW PC33H27.0	1.0	2600~7000	80		110	140	9.3	10	100
NEW PC33U29.0	1.0	2600~4200	90		100	120	6.3	6.6	150
NEW PC33H05.1	1.2	2600~7000	80		120	160	48	53	25
NEW PC33H12.1	1.3	2600~7000	80		120	160	64	69	20
NEW PC33H13.1	1.3	2600~7000	80		120	160	31	35	40

3030 - High Durability

- Best reliability performance
- LM-80 certified LED
- High efficacy
- Low thermal resistance
- Simple design to pair with optical lens
- Lower system cost by using linear driver (PC33H05/H12/H13 design with HV chip)



3.2 × 3.0 × 0.6 (mm)

Model Name	Power (W)	CCT (K)	CRI		Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	Typ	Max	
PC33H01.1	1.0	2600~7000	80		110	140	6.3	6.6	150
PC33U06.1	1.0	2600~4200	90		80	120	6.3	6.6	150
PC33H11.1	1.0	2600~7000	80		120	150	6.2	6.6	150
NEW PC33N30.0	1.0	2900~7000	70		120	150	6.3	6.6	150
PC33H05.0	1.2	2600~7000	80		116.9	155.7	47	53	25
PC33H12.0	1.3	2600~7000	80		128.6	171.3	64	69	20
PC33H13.0	1.3	2600~7000	80		128.6	171.3	31	34	40

5050 HV

- Excellent reliability, LM-80 certified LED
- Simple optical design
- Delivers superb light quality
- Good solution for spotlight & candle light



5.8 × 5.2 × 0.7 (mm)

Model Name	Power (W)	CCT (K)	CRI		Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	Typ	Max	
PC55H01.0	3.5	2600~5300	80		325	450	9.5	10.4	350
PC55H04.0	5.0	2600~5300	80		450	660	25	27.4	200
PC55H10.0	5.4	2600~5300	80		660	799	36.2	39.8	150
NEW PC55H10.1	5.4	2600~5300	80		660	799	18.3	20.4	300
NEW PC55H10.2	5.4	2600~5300	80		660	799	12.4	13.6	450
PC55U07.0	5.0	2600~4200	90		450	500	61	64	80
NEW PC55U12.0	5.4	2600~4200	90		550	660	36.2	39.8	150
NEW PC55N13.0	5.4	2900~7000	70		726	880	36.2	39.8	150

Chip On Board

COB Series

- Up to 150 lm/W (85°C)
- CRI >90 available (R9 >50)
- Below B.B.L. available
- 3-step binning
- Low Rth, good heat dissipation
- Customization acceptable



LES9.8 : 13.5 × 13.5 × 0.9 (mm)
 LES14.5 : 19 × 19 × 0.9 (mm)
 LES22 : 28 × 28 × 0.9 (mm)

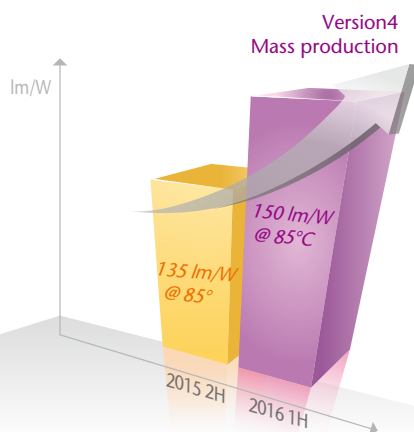


Verison 4 NEW

Light Emitting Surface	Model Name	Dimensions L × W × H (mm)	Power (W)	CCT (K)	CRI Min	Luminous Flux (lm)		Forward Voltage (V)	
						Typ	Typ	Typ	Forward Current (mA)
LES9.8	PB06H09.0	13.5 × 13.5 × 0.9	6.2	2700	80	888	34.7	180	
				3000		930			
				4000		963			
				5000		972			
	PB09H01.0	13.5 × 13.5 × 0.9	9.4	2700	80	1318	34.7	270	
				3000		1380			
				4000		1428			
				5000		1442			
	PB13H01.0	13.5 × 13.5 × 0.9	12.5	2700	80	1714	34.7	360	
				3000		1795			
				4000		1858			
				5000		1876			
PB16H01.0	13.5 × 13.5 × 0.9	15.6	2700	80	2235	34.7	450		
			3000		2340				
			4000		2422				
			5000		2445				
PB19H01.0	19 × 19 × 0.9	18.7	2700	80	2664	34.7	540		
			3000		2790				
			4000		2888				
			5000		2916				
PB26H01.0	19 × 19 × 0.9	24.9	2700	80	3343	34.7	720		
			3000		3500				
			4000		3623				
			5000		3658				
LES22	PB38H01.0	28 × 28 × 0.9	36.7	2700	80	5253	34.1	1080	
				3000		5500			
				4000		5693			
				5000		5748			

Understand and satisfy your needs

- Improve hot performance
- CRI >90 (R9>50) and below B.B.L available
- Customization acceptable



Module



L Series

- Excellent flexibility for linear application design
- Easy for installation and connection
- Good quality and uniformity of light
- CRI >90 available
- 3-step binning available
- Compliant with Zhaga Book 7



Entry

Model Name	Ordering Code	Dimensions L x W x H (mm)	Power (W)	CCT (K)	CRI Min	Luminous Flux (lm)		Forward Voltage (V) Typ	Forward Current (mA)
						Typ	Typ		
LBL-ET	LET-2820-830	280 x 20 x 1.2	7.7	3000	80	920	22.2	350	
	LET-2820-840			4000		1010			
	LET-2820-865			6500		1010			
	LET-2820-930			3000		820			
	LET-2820-940			4000		910			
	LET-5620-830	560 x 20 x 1.2	15.4	3000	80	1840	44.4	350	
	LET-5620-840			4000		2020			
	LET-5620-865			6500		2020			
	LET-5620-930			3000		1650			
	LET-5620-940			4000		1810			

Standard

Model Name	Ordering Code	Dimensions L x W x H (mm)	Power (W)	CCT (K)	CRI Min	Luminous Flux (lm)		Forward Voltage (V) Typ	Forward Current (mA)
						Typ	Typ		
LBL-ST	LST-2820-830	280 x 20 x 1.2	7.2	3000	80	975	20.7	350	
	LST-2820-840			4000		1075			
	LST-2820-865			6500		1075			
	LST-2820-930			3000		875			
	LST-2820-940			4000		960			
	LST-5620-830	560 x 20 x 1.2	14.2	3000	80	1950	41.4	350	
	LST-5620-840			4000		2150			
	LST-5620-865			6500		2150			
	LST-5620-930			3000		1755			
	LST-5620-940			4000		1930			

High Efficiency

Model Name	Ordering Code	Dimensions L x W x H (mm)	Power (W)	CCT (K)	CRI Min	Luminous Flux (lm)		Forward Voltage (V) Typ	Forward Current (mA)
						Typ	Typ		
LBL-HE NEW	LHE-2820-830	280 x 20 x 1.2	7.0	3000	80	975	20.0	350	
	LHE-2820-840			4000		1200			
	LHE-2820-865			6500		1200			
	LHE-2820-930			3000		870			
	LHE-2820-940			4000		1050			
	LHE-5620-830	560 x 20 x 1.2	14.0	3000	80	1950	40.0	350	
	LHE-5620-840			4000		2400			
	LHE-5620-865			6500		2400			
	LHE-5620-930			3000		1750			
	LHE-5620-940			4000		2150			

Industry

Model Name	Ordering Code	Dimensions L x W x H (mm)	Power (W)	CCT (K)	CRI Min	Luminous Flux (lm)		Forward Voltage (V) Typ	Forward Current (mA)
						Typ	Typ		
LBL-ID NEW	LID-2840-830	280 x 40 x 1.2	16.6	3000	80	2120	47.5	350	
	LID-2840-840			4000		2240			
	LID-2840-865			6500		2240			
	LID-2840-930			3000		1980			
	LID-2840-940			4000		2050			
	LID-5640-830	560 x 40 x 1.2	33.2	3000	80	4250	47.5	700	
	LID-5640-840			4000		4480			
	LID-5640-865			6500		4480			
	LID-5640-930			3000		3950			
	LID-5640-940			4000		4150			

Bi-Color

Model Name	Ordering Code	Dimensions L x W x H (mm)	Power (W)	CCT (K)	CRI	Luminous Flux (lm)	Forward Voltage (V)	Forward Current (mA)
					Min	Typ	Typ	
LBL-BI NEW	LBI-2820-82765	280 x 20 x 1.2	7.2*	2700	80	945	20.7*	350*
				6500		1075		
	LBI-2820-92740	2700	90	850				
		4000		960				
LBI-5620-82765	560 x 20 x 1.2	14.4*	2700	80	1890	41.4*	350*	
			6500		2150			
LBI-5620-92740			2700	90	1700			
			4000		1930			

* Per channel

R Series

- Excellent for bulb application
- Easy for installation and connection
- Good thermal dissipation



RoHS **T_c=85°C**

Model Name	Ordering Code	Dimensions Φ x H (mm)	Power (W)	CCT (K)	CRI	Luminous Flux (lm)	Forward Voltage (V)	Forward Current (mA)
					Min	Typ	Typ	
LBR-ST NEW	RST-40-827	40 x 1.2	7.7	2700	80	930	48.4	160
				5000		1000		
LBR-HE NEW	RHE-40-830	40 x 1.2	7.1	3000	80	950		
				5000		1020		

E Series

- Excellent for panel light application
- Easy for installation and connection
- Good quality and uniformity of light
- Lower maintenance cost



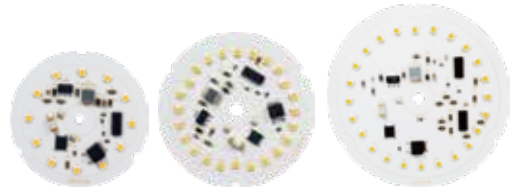
RoHS **T_c=55°C**

Model Name	Ordering Code	Dimensions L x W x H (mm)	Power (W)	CCT (K)	CRI	Luminous Flux (lm)	Forward Voltage (V)	Forward Current (mA)
					Min	Typ	Typ	
LBE-ST NEW	EST-2624-830	260 x 240 x 1.2	8.4	3000	80	1050	24	350
	EST-2624-840			4000		1150		
	EST-2624-865			6500		1150		

DOB (Driver On Board)

AChiever - RF Series

- Round flood type
- AC direct-in, plug and play
- No external drivers required
- Lextar's LM-80 tested LEDs
- Excellent PF >0.9 and low THD <20%
- TRIAC dimming solution available, interfacing with smart lighting control
- No electrolytic capacitors needed, long lifetime



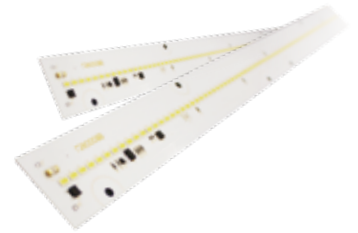
$T_c=65^{\circ}\text{C}$

Downlight Ceiling Light

Ordering Code	Dimensions $\Phi \times H$ (mm)	Luminous Flux (lm)	Power (W)	CCT (K)	SDCM	CRI	Input (V)	PF	THD
ACR06-830-08x-x	60 x 1	800	8	3000	3	80	120/230	>0.9	<20%
ACR06-840-08x-x				4000					
ACR06-857-08x-x				5700					
ACR07-830-12x-x	70 x 1	1200	12	3000	3	80	120/230	>0.9	<20%
ACR07-840-12x-x				4000					
ACR07-857-12x-x				5700					
ACR07-830-16x-x	70 x 1	1600	16	3000	3	80	120/230	>0.9	<20%
ACR07-840-16x-x				4000					
ACR07-857-16x-x				5700					
ACR09-830-20x-x	90 x 1	2000	20	3000	3	80	120/230	>0.9	<20%
ACR09-840-20x-x				4000					
ACR09-857-20x-x				5700					

AChiever - LF Series

- Linear flood type
- AC direct-in, plug and play
- No external drivers required
- Excellent PF >0.9 and low THD <20%
- Compact design and DC equivalent efficacy
- No electrolytic capacitors needed, long lifetime



$T_c=65^{\circ}\text{C}$

Cabinet Light Troffer Cove Light Base Light

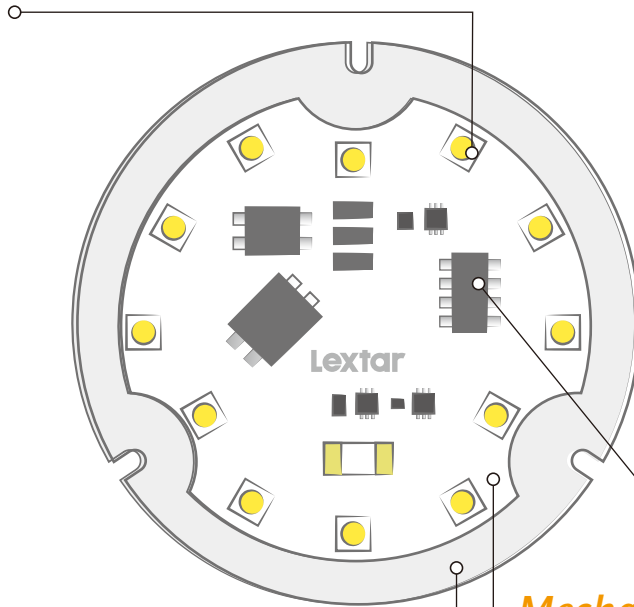
Ordering Code	Dimensions L (mm)	Luminous Flux (lm)	Power (W)	CCT (K)	SDCM	CRI	Input (V)	PF	THD
ACL28-840-08x-N	280	800	8	4000	3	80	120/230	>0.9	<20%
ACL56-840-08x-N	560	1600	16	4000	3	80	120/230	>0.9	<20%
ACL28-840-12x-N	280	1200	10	4000	3	80	120/230	>0.9	<20%
ACL56-840-12x-N	560	2400	19	4000	3	80	120/230	>0.9	<20%

AChiever

Achieve your success with integrated DOB light engine

LED

- Designed with Lextar high performance LED



Electronic Design

- Cooperation with IC development partner
- Excellent PF (>0.9) and low THD ($<20\%$), low flicker index ($<30\%$)
- Power stabilization, current LED error $< \pm 5\%$ for voltage AC in $\pm 10\%$ variation
- Under voltage protection
- Triac dimming solution available

Mechanics

- RF and LF series for various applications
- Customization acceptable

Thermal Management

- IC temperature compensated

All product names and specifications in this catalog are subject to change without notice for the purpose of improvement, or manufacturing may be discontinued. Please contact our sales team in terms of release date and latest specifications for each product.

Production Site 生产基地

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