



HONGLITRONIC

2021 | LED CATALOGUE

LED 封装产品目录

鸿利智汇集团股份有限公司
Hongli Zhihui Group Co.,Ltd.

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■ 国家科学技术进步奖一等奖

Won the first prize of the National Science and Technology Progress Award

由中科院半导体研究所牵头，鸿利智汇、三安光电等多家单位联合完成的“高光效长寿命半导体照明关键技术与产业化”项目，获得了国家科学技术进步奖一等奖。该项目不仅成功解决了半导体照明电光转化率低、可靠性差、标准缺失等关键问题，同时也实现了全球最大规模的LED芯片技术产业化与核心器件国产化，对LED照明产业的发展有着里程碑式的意义。

Led by the Semiconductor Research Institute of the Chinese Academy of Sciences, Hongli Zhihui, Sanan Optoelectronics and other units jointly completed the "High-efficiency and Long-life Semiconductor Lighting Key Technology & Industrialization" project, which won the first prize of the National Science and Technology Progress Award. This project not only successfully solved the key problems of low conversion efficiency, poor reliability, and lack of standards in semiconductor lighting, but also achieved the world's largest industrialization of LED chip technology and localization of core devices, which is a milestone for the development of LED lighting industry.



■ 公司介绍 Company Introduction

公司介绍 Company introduction

■ 新品系列 New Series

植物照明系列

Plant growth lighting series

高耐压陶瓷COB LC系列

High pressure resistance ceramic COB-LC series

■ 健康照明系列 Health Lighting Series

教育照明-护眼系列

Educational lighting-eye protection series

太阳光谱2835

Sunlight spectrum 2835

家居照明-人体节律因子调节系列

Home lighting- - human rhythm factor adjustment series

■ 紫光系列 UV LED Series

近紫外 LED

UVA LED

深紫外 LED

UVC LED

■ 通用照明系列 General Lighting

中小功率SMD LED

Low/Mid Power SMD LED

高功率 COB LED

High Power COB LED

■ 汽车照明系列 Automotive Lighting

内饰灯系列 Interior lamp series

信号灯系列/车头灯系列

Signal lamp&Headlamp series

陶瓷后装车灯系列

Ceramic automotive products for aftermarket series

■ 其他系列 Other Series

指示&背光系列

Indicator& Backlight series

灯丝系列

LED Filament

公司介绍 Company Introduction

鸿利智汇 (SZ:300219) 创立于2004年, 总部位于中国广州, 是国内半导体封装器件的领导品牌。专注于LED封装业务、LED汽车照明业务等主营业务板块。公司多款产品获得中国CQC认证、欧盟CE认证、美国UL认证, 符合欧美LM-80寿命测试要求, SONY GP认定通知书, 并满足当前国际RoHS、REACH等法律法规要求。公司车规级LED封装多款产品通过AEC-Q102/IEC60810认证测试, 基本实现全车LED应用覆盖。拥有CNAS认可的“能源之星实验室”(获得美国EPA环保署认可), 以及广州、南昌、东莞、镇江等LED生产基地。凭借在行业的品牌影响力和核心竞争力, 公司产品已覆盖全国大部分省市, 并销往欧洲、美洲、东南亚、非洲等40多个国家和地区。

HONGLIZHIHUI (SZ:300219) was founded in 2004 and the headquarters is located in Guangzhou, China. It is a leading brand of semiconductor packaging devices in China. We focus on LED packaging business, LED automotive lighting business and other main business segments. Many of our products have obtained the Chinese CQC certification, European CE certification, American UL certification. Most of our products meet the European and American LM-80 life test requirements, and the current international RoHS, REACH and other laws and regulations. Meantime, some products have obtained the SONY GP certification notice.

Most of our car grade LED packaging products passed the AEC-Q102/IEC60810 certification test and achieved the whole vehicle LED application coverage basically. We have CNAS accredited "Energy Star Lab", which is accredited by EPA. We have LED production bases in Guangzhou, Nanchang, Dongguan, Zhenjiang and so on. With the brand influence and core competitiveness in the LED industry, the application of our products have covered most provinces and cities in China, and are sold well to Europe, America, Southeast Asia, Africa and other more than 40 countries and regions.



总部 Headquarter
Guangzhou



注册资金 Registered Capital
RMB 710 million



员工 Employees
4800+



2020营收 2020 Revenue
RMB 3124 million



生产基地 Manufacturing sites
China (Guangzhou, Nanchang, Dongguan and Zhenjiang city)
中国 (广州、南昌、东莞、镇江)

全球服务 Global services



质量管理体系 Quality management system



ISO9001



IATF16949



ISO14001

能源之星实验室 CNAS (L7029) laboratory



鸿利智汇实验室是通过CNAS认可的“能源之星实验室”, 并获得美国EPA (环保署) 认可。其在LED封装/阵列/模组产品LM-80测试项目及LEDs的测量项目上, 可帮助企业满足国际标准要求。

Our laboratory is CNAS (CNAS LAB CODE L7029) accredited, also recognized by US EPA for LED Packages/Arrays/Modules IES LM-80 testing and CIE 127-2007 standard testing.



New Series
新品系列

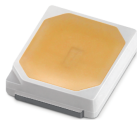
New Series
新品系列

型号	颜色	正向电压	电流	波长 (nm)/ 色温(K)	PPFumol/S @[400~700nm]	PPF/W (μmol/J)
Product Model	Colour	V F(V)	IF(mA)	Wavelength(nm) /TC(K)		
C3535F3V3GA - ZW		3.2- 3.8	700	λ P=387.5- 392.5	2.69	1.11
C3535K9B3GA - ZW- FC		2.8- 3.2	700	λ d=445- 455	5.3	2.5
C3535F4IR3GA- ZW	近 IR	2.2- 2.8	700	λ p=735- 745	0.31	0.19
C3535F15R3GA- ZW		2.0- 2.6	700	λ p=655- 665	5.0	2.8
C3535K14R3GA- ZW		1.8- 2.4	700	λ p=655- 665	5.35	3.6
C3535K15R3GA- ZW		1.8- 2.4	700	λ p=655- 665	5.7	3.85
C3535K9W1GA(Ra1)- FC	White	2.6- 3.2	700	4000	2.36	2.43

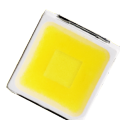
型号	颜色	正向电压	电流	波长(nm)/ 色温 (K)	PPF umol/S @[400~700nm]	PPF/W (μmol/J)
Product Model	Colour	VF(V)	IF(mA)	Wavelength(nm) /TC(K)		
A-2835H421BC -S1-08- PCT-ZW		2.8-3.4	60	440-460	0.85	1.78
A-2835S50FC -S1-08- PCT-ZW		1.8-2.4	60	650-670	0.34	2.44
A-2835D46BC -S1-08- PCT-ZW		2.8-3.4	150	440-460	1.0	3.6
A-2835D15FC -S1-08- PCT-ZW		2.6	150	650-670	0.8	2.6
A-2835D1IRC -L1-S1-08- PCT-ZW	近 IR	1.8-2.4	150	725-735	0.07	0.2
A-2835D90W-2-S1-08- PCT-HR3- ZW	White	2.5-3.0	65	4000	0.51	2.9
A-2835D90VW-2-LVR7- S1-08-PCT-HR6	White	2.8-3.4	150	4000	0.7082	1.54
SS-3032D90W-3-S1- HR3-ZW	White	2.6-3.0	65	4000	0.49	2.8
AS-3030F29W-LVR5-S1- PCT-HR3-FC-ZW	White	2.6-3.0	65	4000	0.52	3.0

Plant Growth Lighting C3535/PCT3030/SMD2835

植物照明系列 C3535/PCT3030/SMD2835



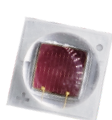
2835



3030



3535



3535

- 全波段-可实现不同波长配比定制方案；
- 高功率-出光效率高, 0.2-3W通用；
- 高可靠性-陶瓷基板和热电分离设计；
- 高效-PCT3030超高效率白光,C3535高效率植物红光。



- Full frequency band - can be customized for different wavelength ratios;
- High power - high light extraction efficiency, 0.2-3W universal;
- High reliability - ceramic substrate and thermoelectric separation design;
- High efficiency-PCT3030 excellent efficiency white light, C3535 high efficiency red light.

LC系列 / LC series
High pressure resistance ceramic COB

高耐压陶瓷COB

- 采用陶瓷基板封装；
 - 电气距离及Hi-Pot测试满足GB7000.1-2015标准要求；
 - 颜色一致性好，采用近似3阶麦克亚当椭圆分选。
- Ceramic substrate packaging
 - Electrical distance and HI-POT test meet the requirements of GB7000.1-2015 standard
 - Good color consistency, using approximately McAdam 3 step for sorting



LC2009
16.0×19.7×1.6mm



LC2611
17.25×25.6×1.6mm

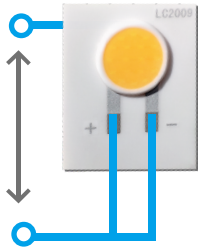


LC2614
17.25×25.6×1.6mm

型号 P roduct Type	电压等级 VF(V)	电流/mA IF (mA) typ.	3000K,80CRI 典型光效/lm/W	3000K,90CRI 典型光效/lm/W	最大电流/mA IF (mA) max
LC2009D4W-9B1C18(RaX)-S	54	150	106	94	150
LC2611D4W-24B1C54(RaX)-S	162	150	110	99	150
LC2614D4W-50B2C54(RaX)-S	162	300	106	95	300

■ Hi-Pot测试方法：

时间:60s
漏电流:≤10mA



- GB7000.1-2015《灯具 第1部分:一般要求与试验》标准规定爬电距离大于6mm
- 交流(50/60Hz)正弦电压的最小距离 Minimum distances for a.c.(50/60 Hz) sinusoidal voltages

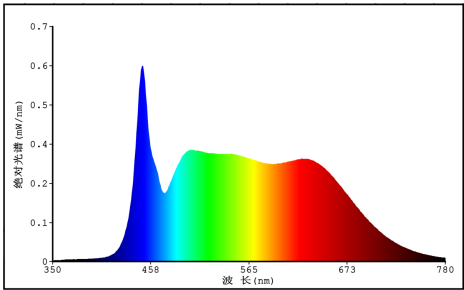
距离 mm Distances mm	工作电压有效值不超过 V RMS working voltage not exceeding V					
	50	150	250	500	750	1000
爬电距离 ^b Creepage distances ^b	0.6	0.8	1.5	3	4	5.5
基本绝缘PTI ^a ≥600 <600	1.2	1.6	2.5	5	8	10
Basic insulation PTI ^a 附加绝缘PTP ^a ≥600 <600	—	0.8	1.5	3	4	5.5
Supplementary insulation PTI ^a 加强绝缘	—	1.6	2.5	5	8	10
Reinforced insulation	—	3.2 ^d	5 ^d	6	8	11
电气间隙 ^c Clearances ^c	0.2	0.8	1.5	3	4	5.5
基本绝缘 Basic insulation	—	0.8	1.5	3	4	5.5
附加绝缘 Supplementary insulation	—	1.6	3	6	8	11
加强绝缘 Reinforced insulation	—	1.6	3	6	8	11

a PTI(耐起痕指数)按照IEC 60112:2003。
a PTI(proof tracking index) in accordance with IEC 60112:2003.
b 对于爬电距离, 等效的直流电压等于正弦交流电压的有效值。
b For creepage distances, the equivalent d.c.voltage is equal to the r.m.s. value of the sinusoidal a.c. voltage.
c 对于电气间隙, 等效的直流电压等于交流电压的峰值。
c For clearances, the equivalent d.c. voltage is equal to the peak of the a.c. voltage.
d 对于PTI≥600的绝缘材料, 此值可减少为该材料基本绝缘数值的两倍
d For insulation material ith PTI≥600, this is reduced to twice that of the basic insulation for this material.

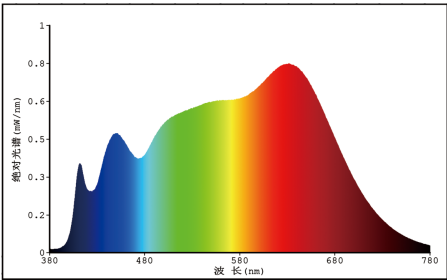
Educational lighting-eye protection series

教育照明-护眼系列产品 (LM-80,符合DLC5.1)

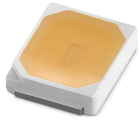
- 高显指、高光效、高可靠性。
 - 提供RG0无蓝光危害灯具应用方案。
 - 光谱连续饱和，接近太阳光谱本色。
- High CRI, high luminous efficacy, high reliability.
 - Provide RG0 application solutions without blue light hazards.
 - Spectral continuous saturation, close to the natural color of the solar spectrum.



全光谱---蓝光激发全光谱产品
Full Spectrum - The LED which was fabricated using a blue chip and the phosphor.

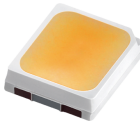


太阳光谱---紫光激发全光谱产品
Sunlight Spectrum - The LED which was fabricated using a violet chip and the phosphor



2835-PPA
2.8x3.5x0.7mm

产品型号	电压等级	显指	电流(mA)	典型光效	最大电流(mA)
Product Type	VF	CRI min	IF(mA) type.	4000K Typ. (lm/W)	IF(mA) max
☆ AM-2835D1W-S1-08HL-HR6	3V	95	60	140	150
☆ A-2835D46W-S1-08-HR6		95	60	150	180



2835-PCT
2.8x3.5x0.7mm

产品型号	电压等级	显指	电流(mA)	典型光效	最大电流(mA)
Product Type	VF	CRI min	IF(mA) type.	4000K Typ. (lm/W)	IF(mA) max
☆ A-2835D46W-2-S1-08-PCT-HR6	3V	95	150	125	350
☆ A-2835D90W-2-S1-08-PCT-HR6		95	150	135	350

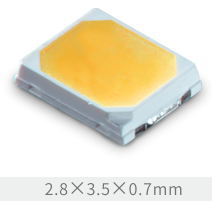
型号	颜色	正向电压	电流	PPF umol/S @ [380~780nm]	PPF/W (μmol/J)
Product Model	Colour	VF(V) typ.	IF(mA)	PPF umol/S @ [380~780nm]	PPF/W (μmol/J)
A-2835D90VW-LVR7- S1-08-PCT-HR6	White	2.8-3.4	60mA	0.3284@[Tc=6500K]	1.8
A-2835D90VW-2- LVR7-S1-08-PCT-HR6	White	2.8-3.4	150mA	0.7082@[Tc=4000K]	1.54

产品型号	电压等级	显指	电流(mA)	典型光效	最大电流(mA)
Product Type	VF	CRI min	IF(mA) type.	4000KTyp. (lm/W)	IF(mA) max
☆ A-2835D90VW-LVR7-S1-08-PCT-HR6	3V	95	60	100	90
☆ A-2835D90VW-2-LVR7-S1-08-PCT-HR6		95	150	100	150

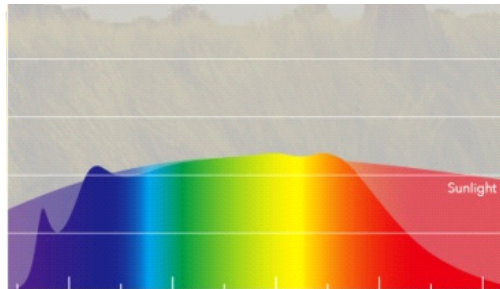
Sunlight Spectrum 2835

太阳光谱 2835

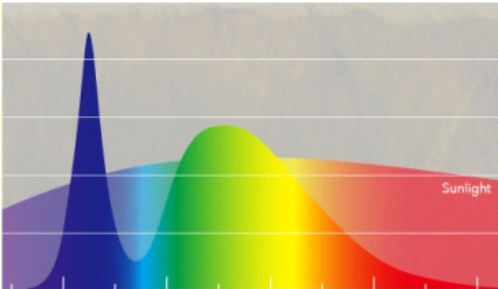
- 完美色彩, CRI大于95;
 - 光谱连续饱和, 接近太阳光谱本色;
 - 蓝光含量极低, 性能提升;
 - 光效可达110LM/W;
 - 更逼真的还原太阳光谱。
- Perfect color, CRI are all above 95;
 - Spectrum with continuous saturation, very close to the natural color of the solar spectrum;
 - Extremely low in blue laser, performance hasbeen enhanced;
 - Light efficiency up to 110LM/W;
 - More realistic rendering of the solar spectrum.



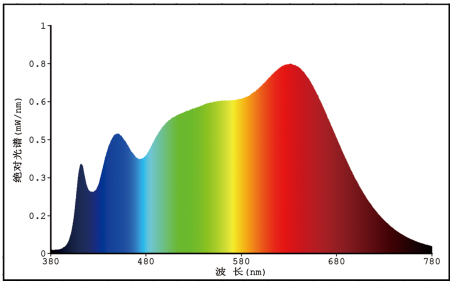
Natural Light



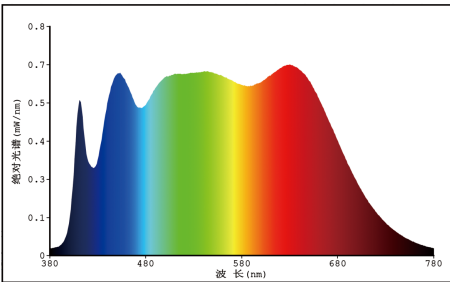
Ordinary LED



An ordinary LED's spectrum is very different to sunlight, whereas Natural Light's is almost the same. Objects lit by Natural Light appear as they would in sunlight.



CCT 4000K 波长 Wavelength

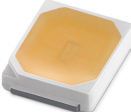


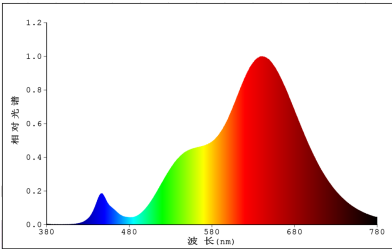
CCT 5000K 波长 Wavelength

Home Lighting- - human rhythm factor adjustment series

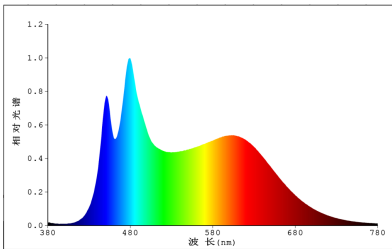
家居照明-人体节律因子调节系列产品

- 采用荧光粉与蓝光芯片调试出特殊光谱,有效调节人体褪黑色素分泌,保障人体在白天保持充沛精力,同时在夜晚得到足够的放松休息。
 - AS-2835D90WD104W-2C-S1-08-PCT-HR3-DGHL系列产品,可提供 3000K 至 6500K 的不同色温范围,适用于学校、办公室、图书馆和工业场所等多种室内应用,以增强人体的警觉意识和能量水平。
 - AS-2835D90W-2C-S1-08-PCT-HR3-EGHL系列产品,可提供 1800K 至 4000K 的不同色温范围,适合于家居、休闲会所等多种夜间照明应用,为人体带来更多放松时刻和提高睡眠质量。
- By controlling the 480nm blue-green light ,adopt special spectrum blending technology to effectively regulate the melatonin secretion of the human body, to ensure that the human body maintains full energy during the day and get enough relaxation at night.
- AS-2835D90WD104W-2C-S1-08-PCT-HR3-DGHL series products, It can provide a range of different color temperature from 3000K to 6500K,suitable for a variety of indoor applications such as schools,offices, libraries, and industrial place ,to enhance the alertness and energy level of the human body.
- AS-2835D90W-2C-S1-08-PCT-HR3-EGHL series products, It can provide different color temperature ranges from 1800K to 4000K,and is suitable for various night lighting applications such as homes and leisure clubs, bring more relaxation time for the human body and improve sleep quality.

 2835-PCT 2.8x3.5x0.7mm	产品型号	电压等级	色温	显指	电流(mA)	典型光效	最大电流(mA)
	Product Type	VF	CCT(K)	CRI min	IF(mA)type.	Typ.(lm/W)	IF (mA) max
	AS-2835D90WD104W-2C-S1-08-PCT-HR3-DGHL	6V	5700	80	150	125	180
	AS-2835D90W-2C-S1-08-PCT-HR3-EGHL	6V	2200	80	150	90	180



AS-2835D90W-2C-S1-08-PCT-HR3-EGHL---2200K光谱



AS-2835D90WD104W-2C-S1-08-PCT-HR3-DGHL---5700K光谱

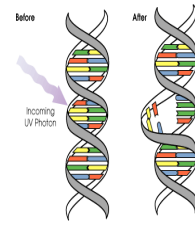
UV LED application market by wavelength

UV LED 各波长的应用市场

- UV LED以其小型、低成本及环保的特点,UV LED也逐渐趋向高效化、高功率化。UV LED根据发光波长的不同,应用群也各不相同。UVA (315~400nm) 主要用于产业用硬化装置、验钞机等,UVB (280~315nm) 主要用于医疗/生物领域中的治疗仪及分析仪器等,UVC (280~200nm) 主要用于杀菌/净化/净水等环境领域。
- Due to its small size, low cost and environmental protection, UV LEDs are also gradually becoming more efficient and high-power. UV LEDs have different application groups depending on the emission wavelength. UVA (315~400nm) is mainly used in industrial hardening devices, money detectors, etc., UVB (280~315nm) is mainly used in medical/biological fields, such as therapeutic instruments and analytical instruments, and UVC (280~200nm) is mainly used in Environmental fields such as sterilization/purification/water purification.

消毒、杀菌

Disinfection & Sterilization



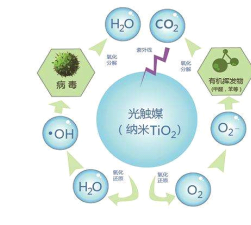
Before After

Incoming UV Photon

UVC destroys the DNA and RNA of microorganisms, making them lose the ability to reproduce and thus die, achieving the effect of disinfection and sterilization.

光触媒净化

Photocatalyst Purification

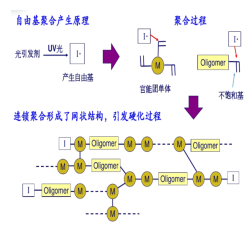


光触媒 (纳米TiO₂)

通过特定波长UVA照射下光触媒,能在空气中产生自由基,在超氧化物的活性作用下,可以分解空气中的有机化合物(霉、甲醛、乙醛、细菌等),并将其分解为无害的二氧化碳和水。

树脂固化

Resin Curing



自由基聚合产生原理

聚合过程

在特殊配方的树脂中加入光引发剂,经过吸收UV固化设备中的高强度紫外光后,产生活性自由基,从而引发聚合、交联和接枝反应,使树脂在数秒内由液态转化为固态。

树脂固化

Resin Curing

Adding a photoinitiator to a specially formulated resin, after absorbing high-intensity ultraviolet light in a UV curing device, generates active free radicals, thereby initiating polymerization, cross-linking, and grafting reactions, turning the resin from liquid to solid in seconds.

UV LED Series
紫光系列

UVA LED (365nm-405nm)
近紫外 LED (365nm-405nm)

- UVA波长范围广:365 nm-420 nm.
- 垂直芯片技术可通过紧凑的封装实现极高的UV功率。
- 高导热铜芯板和陶瓷封装, 低热阻。

- Wide range of UVA wavelengths: 365 nm to 420 nm.
- Vertical chip technology enables extremely high UV power from compact packages.
- High conductivity copper coreboard and ceramic packages for thermal management.



ES3032
3.2×3.0×0.6mm

产品型号	正向电压	峰值波长 (nm)	电流 (mA)	辐射通量 (mW)	最大电流 (mA)	发光角度
Product Type	Forward Voltage(V)	Peak Wavelength (nm) type.	IF (mA) typ.	Radiation Flux(mW)	IF (mA) max	View Angle(°)
ES-3032S22V365-B2-S1	3	365	200	140	300	120
ES-3032S23V405-B2-S1	3	405	150	200	240	120



UVA C3535
3.45×3.45×2.0mm

LM-80

RoHS

产品型号	正向电压	峰值波长 (nm)	电流 (mA)	辐射通量 (mW)	最大电流 (mA)	发光角度
Product	Forward Voltage(V)	Peak Wavelength(nm) type.	IF(mA)typ.	Radiation Flux(mW)	IF(mA)max	View Angle(°)
C3535F7V365-D1-LVR9	3.5	365	500	375	700	60/120
C3535F8V385-D1-LVR9	3.5	385	500	675	1000	
C3535F9V395-D1-LVR9	3.4	395	500	750	1000	
C3535F10V405-D1-LVR9	3.4	405	500	750	1000	

UV LED Series
紫光系列

UVC LED (270nm-280nm)
深紫外 LED (270nm-280nm)

- 高导热率陶瓷UV封装结构
- 紫外线透射型平板镜片型
- 波长范围:270-280nm
- UVC LED应用于医疗灭菌等应用设备, 水和空气净化以及表面消毒。

- High thermal conductivity ceramic body UV PKG
- UV transmission Flat lens type
- Wavelengths: 270-280 nm.
- UVC LEDs are designed for applications such as sterilization of medical devices, water and air purification, and surface disinfection.



UVC C3535
3.4×3.4×1.45mm

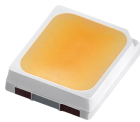
产品型号	峰值波长 (nm)	电流 (mA)	辐射通量 (mW)	最大电流 (mA)	正向电压	发光角度
Product	Peak Wavelength (nm) type.	IF(mA)typ.	Radiation Flux(mW)	IF(mA) max	Forward Voltage(V)	View Angle (°)
C3535S25V280-D1-LVR17-D	275	30	3.5	40	6	120
C3535D01V280-D1-LVR17-D	275	100	11.5	150	6	
C3535D02V280-D1-LVR17-D	275	180	18	250	6.5	

General Lighting- SMD

通用照明- SMD

- 高寿命, 已通过LM-80 9000H测试报告;
 - 接轨国际市场采用色容差分光, 光色一致性优;
 - 产品全, 包含单晶、双晶、三晶, 电压从3V到45V均有匹配可满足不同线性方案的要求;
- Long life span, 9000H LM-80 certified LED;
 - Apply both IEC and ANSI binning system, excellent color consistency.
 - Large product portfolio, including single dice LED、double dice LED、triple dice LED, it can meet the requirement of different linear solution for voltage from 3V to 45V.

SMD 2835 PPA



2.8x3.5x0.7mm

产品型号	电压等级	显指	电流 (mA)	典型光效	最大电流 (mA)	备注
Product Type	VF	CRI min	IF(mA) type.	4000K Typ. (lm/W)	IF(mA) max	Remarks
AM-2835H489W-S1-08HL-HR3	3V	80	60	145	90	符合DLC5.0
AM-2835H466W-S1-08HL-HR3			60	170	90	符合DLC5.0
☆ A-2835D94W-2-S1-08L-HR3			60	220	150	符合DLC5.1
☆ A-2835D3W-2-S1-08L-HR3			60	195	150	符合DLC5.1
AM-2835D1W-S1-08HL-HR3			150	145	150	
A-2835D46W-S1-08-HR3			150	155	180	符合DLC5.1

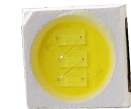
SMD 2835 PCT



2.8x3.5x0.7mm



产品型号	电压等级	显指	电流 (mA)	4000K	最大电流 (mA)	备注	
Product Type	VF	CRI min	IF(mA) Typ.	典型光效	IF(mA) max		
				Typ. (lm/W)			
AS-2835D3W-S1-08L-PCT-HR3(R9)	3V	80	150	130	150	符合DLC5.1	
AS-2835D46W-S1-08-PCT-HR3			150	165	180		
AS-2835H466W-2C-S1-08L-PCT-HR3(R9)	6V		150	130	150		
AS-2835H421W-2C-S1-08L-PCT-HR3(R9)			150	135	150		
AS-2835D68W-2C-S1-08L-PCT-HR3(R9)			150	145	150		
AS-2835H466W-3C-S1-08L-PCT-HR3(R9)	9V		100	145	120		
AS-2835H421W-3C-S1-08L-PCT-HR3(R9)			100	150	120		
AS-2835D1W-3C-S1-08L-PCT-HR3(R9)			100	155	120		
AS-2835DV35W-S1-08L-PCT-HR3(R9)				60	135	60	
AS-2835DV65W-S1-08L-PCT-HR3(R9)			18V	30	140	30	



EMC 3032

3.2×3.0×0.6mm



产品型号	电压等级	显指	电流 (mA)	4000K	最大电流 (mA)	备注
Product Type	VF	CRI min	IF(mA) Typ.	典型光效 Typ. (lm/W)	IF(mA) max	Remarks
ES-3032D46W-2C-S1-HR3	6V	80	150	145	240	符合DLC5.1
ES-3032D3W-3C-S1-HR3	9V		100	135	150	



SMD 3014

3.0×1.4×0.8mm



产品型号	电压等级	显指	电流 (mA)	4000K	最大电流 (mA)	备注
Product Type	VF	CRI min	IF(mA) Typ.	典型光效 Typ. (lm/W)	IF(mA) max	Remarks
A-3014H416W-S1-THL-HR3-DT	3V	80	20	138	30	符合DLC5.1
A-3014H421W-S1-08HL-HR3			30	160	40	
A-3014H421W-S1-08-PCT-HR3			60	150	90	
A-3014H416W-S1-THL-HR5-DT		90	20	128	30	
A-3014H421W-S1-08HL-HR5			30	150	40	
A-3014H421W-S1-08-PCT-HR5			60	140	90	

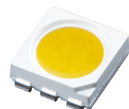


SMD 4014

4.0×1.4×0.7mm



产品型号	电压等级	显指	电流 (mA)	4000K	最大电流 (mA)	备注
Product Type	VF	CRI min	IF(mA) Typ.	典型光效 Typ. (lm/W)	IF(mA) max	Remarks
A-4014H489W-S1-HR3-DM-HL	3V	80	60	145	90	符合DLC5.1
A-4014D1W-S1-PCT-HR3-HL(R9)			60	160	150	
A-4014H489W-S1-HR5-DM-HL			60	130	90	



SMD 5060

5.4x5.0x1.6mm



产品型号	电压等级	显指	电流 (mA)	4000K	最大电流 (mA)
Product Type	VF	CRI min	IF(mA) Typ.	典型光效 Typ. (lm/W)	IF(mA) max
AF-5060H343W-3-S1-THL-HR3	3V	80	60	140	80
AF-5060H343W-3-S1-THL-HR5-DT		90	60	130	80



产品型号	电压等级	显指	电流 (mA)	典型光效	最大电流 (mA)
Product Type	VF	CRI min	IF(mA) Typ.	4000K	IF(mA) max
				Typ. (lm/W)	
A-5730D34W-S1-08-HR3(LY)	3V	80	150	145	180
A-5730D1W-S1-08-HR3(LY)			150	135	180
A-5730D34W-S1-08-HR5(LY)		90	150	125	180
A-5730D1W-S1-08-HR5(LY)			150	115	180



SMD 5730

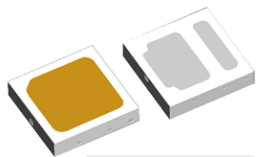
5.7×3.0×0.8mm



EMC 3030圆杯 Round cup

3.0X3.0X0.53mm

电压等级 VF	产品型号 Product Type	显指 CRI min	电流 IF (mA) type.	4000K 光通量 (lm)	最大电流 IF (mA) max
3V/6V/9V	HL-EMC3030D46W-2-S1-HR3	80	350	160-170	480
	HL-EMC3030D46W-2C-S1-HR3		150	135-145	240
	HL-EMC3030D90W-2C-S1-HR3		150	145-155	240
	HL-EMC3030D68W-3C-S1-HR3		100	130-140	180
	HL-EMC3030D1W-3C-S1-HR3		100	125-135	150



EMC 3030方杯 Square cup

3.0X3.0X0.53mm

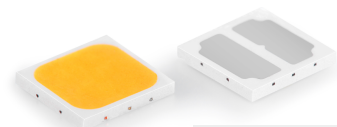
电压等级 VF	产品型号 Product Type	显指 CRI min	电流 IF (mA) type.	4000K 光通量 (lm)	最大电流 IF (mA) max
3V/6V/9V	HL-EMC3030D90W-2C-S1-HR3-F	80	150	145-155	240
	HL-EMC3030D46W-2C-S1-HR3-F		150	135-145	240
	HL-EMC3030D1W-3C-S1-HR3-F		100	125-135	180



EMC 5050圆杯 Round cup

5.0X5.0X0.7mm

产品型号 Product Type	光通量 φv(lm)	正向电压 VF(V)	光效 Typ. (lm/w)	色温 CCT(K)	角度 Angle	正向电流 (mA) IF (mA) type.	显色指数 CRI min	色容差 SDCM
HL-EMC-5050D68W-B1C8-S1-HR3-Y	516	24	138	3000	120°	150	80	<5
HL-EMC-5050D46W-B1C8-S1-HR3-Y	556	24	147	3000	120°	150	80	<5
HL-EMC-5050D90W-B1C8-S1-HR3-Y	581	24	161	3000	120°	150	80	<5
HL-EMC-5050DD68W-B1C10-S1-HR3-Y	625	30	134	3000	120°	150	80	<5
HL-EMC-5050DD46W-B1C10-S1-HR3-Y	673	30	144	3000	120°	150	80	<5
HL-EMC-5050DD90W-B1C10-S1-HR3-Y	704	30	156	3000	120°	150	80	<5



EMC 5050方杯 Square cup

5.0X5.0X0.7mm

产品型号 Product Type	光通量 φv(lm)	正向电压 VF(V)	光效 Typ. (lm/w)	色温 CCT(K)	角度 Angle	正向电流 (mA) IF (mA) type.	显色指数 CRI min	色容差 SDCM
HL-EMC-5050D90W-B1C6-S1-HR3	480-550	17-20	147	4000	120°	200	80	<5
HL-EMC-5050D90W-B1C8-S1-HR1	750-800	23-27	158	4000	120°	200	70	<5
HL-EMC-5050D46W-B1C12-S1-HR3	620-720	33-39	163	4000	120°	120	80	<5
HL-EMC-5050D1W-B1C16-S1-HR3	600-720	44-51	146	4000	120°	100	80	<5
HL-EMC-5050D46W-B2C6-S1-HR3	180-220	15-18	210	4000	120°	60	80	<5

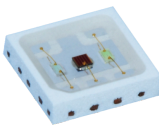


EMC 7070方杯 Square cup

7.0X7.0X0.7mm

产品型号 Product Type	光通量 φv(lm)	正向电压 (v) VF(V)	色温 (k) CCT(K)	角度 Angle	正向电流 IF (mA) type.	显色指数 CRI min	色容差 SDCM
HL-EMC-7070D46W-B2C12-S1-HR3	970-1130	33-39	A4000	120°	200	80	<5
HL-EMC-7070D90W-B2C12-S1-HR3	1340-1540	33-39	A4000	120°	300	80	<5
HL-EMC-7070D1W-B1C32-S1-HR3	1320-1560	91-102	A4000	120°	120	80	<5
HL-EMC-7070D94W-B1C18-S1-HR3	1600-1700	52-61	A4000	120°	200	80	<5

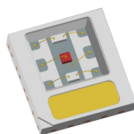
EMC 3030RGB



3.0X3.0X0.65mm

产品型号 Product Type	光色 colour	波长 WD(nm)	光通量 φv(lm)	正向电压 VF(V)	正向电流 IF (mA) type.
HL-EMC-3030RGB-S1-W-H	红光 Red	620-630	2~3	2.0~2.4	20
	绿光 Green	520-530	5~6	2.8~3.2	20
	蓝光Blue	460-470	1~2	2.8~3.2	20
HL-EMC-3030RGB-S1-W-D	红光Red	620-630	8~11	2.0~2.4	60
	绿光 Green	520-530	15~18	2.8~3.4	60
	蓝光Blue	460-470	3~5	2.8~3.4	60
HL-EMC-3030RGB-S1-W-F	红光Red	620-630	18~23	2.0~2.6	150
	绿光 Green	520-530	36~41	2.8~3.4	150
	蓝光Blue	460-470	8~13	2.8~3.4	150

EMC 5050RGBW



5.0X5.0X0.7mm

产品型号 Product Type	光色 colour	波长 WD(nm)	光通量(lm) φv(lm)	正向电压(V) VF(V)	正向电流(mA) IF (mA) type.
HL-EMC-5050RGBW-S1-A1	红光 Red	620-630	17~22	2.0~2.6	120
	绿光 Green	520-530	33~43	2.8~3.4	120
	蓝光 Blue	460-470	8~15	2.8~3.4	120
	白光White	/	50~55	2.8~3.4	120

Double Color Adjustable COB

智能调光双色COB

- 白光CoB加CSP混光技术, 混光均匀, 融合效果佳;
 - 高光色品质, 3000~5000k轨迹近似与BBL重叠;
 - 覆晶封装, 更高温度承载能力更高可靠性;
 - 使用方便灵活, 兼容市面上主流灯具配件。
- White COB plus CSP color-mixing technology, excellent color intergration performance
 - High quality of light, 3000 ~ 5000K trajectory similar to the BBL ;
 - Flip chip package, higher temperature tolerance capacity, higher reliability;
 - Flexible usage, compatible with the mainstream lighting accessories in current market



型号 Product Model	电压等级 VF(V)	色温 CCT (K)	电流		光通量	
			IF(mA)		Φv(lm)	
			W	C	Ra80	Ra90
HL-LH002F95W-12B2C12(RaX)-CS	36	3000K	300	0	990	850
		4000K	150	150	1100	950
		5000K	0	300	1200	1050
HL-LH003F95W-24B4C12(RaX)-CS	36	3000K	600	0	2050	1800
		4000K	300	300	2450	2100
		5000K	0	600	2550	2200

COB LM (High efficacy)

高光效COB LM 系列

- 取得第三方LM-80 10000小时测试报告
 - 可采用Tj=85℃进行分光分色, 光效140lm/W以上, 主推80/90Ra;
 - 尺寸、发光面积可兼容市面通用型灯具配件;
 - 颜色一致性好, 采用近似3阶麦克亚当椭圆分选。
- Obtain a third-party LM-80 10000-hour test report
 - Color binning at Tj=85°Cavailable, efficacy more than 140lm/W, main promoted CRI 80/90Ra;
 - Size and light-emitting areacan be compatible with universal type oflamp accessories in the market;
 - Good color consistency,adopt 3 step MacAdam ellipsesbinning.



型号	电压等级	电流/mA	3000K,80CRI	3000K,90CRI	最大电流/mA
Product Type	VF(V)	IF (mA) typ.	典型光效	典型光效	IF (mA) max
			Typ.(lm/W)	Typ.(lm/W)	
☆ LMH02D90W-5B2C12(RaX)-S	36	180	144	127	300
☆ LMH02D90W-7B3C12(RaX)-S		270	143	126	450
☆ LMH02D90W-9B4C12(RaX)-S		360	138	122	600
☆ LMH03D90W-11B5C12(RaX)-S	36	450	146	128	750
☆ LMH03D90W-13B6C12(RaX)-S		540	144	126	900
☆ LMH03D90W-17B8C12(RaX)-S		720	140	123	1200
☆ LMH04D90W-25B12C12(RaX)-S	36	1080	147	129	1800
☆ LMH04D90W-35B16C12(RaX)-S		1440	145	127	2100

High luminous density COB HI Series

高光密度COB HI系列

- 取得第三方LM-80 10000小时测试报告
 - 采用两种工艺路线:进口高反射率镜面铝 搭配焊线工艺;倒装共晶工艺;
 - 为PAR射灯提供更高的中心光强、出光均匀;
 - 结合独特的荧光粉涂覆技术,可有效降低胶面温度;
 - 尺寸、发光面积可兼容市面通用型灯具配件。
- Obtain a third-party LM-80 10000-hour test report
 - Adopt two process routes: imported high-reflectivity mirror aluminum with welding line process; lip-chip eutectic process;
 - Combined with unique phosphor coating technology, it can effectively reduce the temperature of the glue surface;
 - Provide PAR spotlights with higher central light intensity and uniform light output;
 - The size and luminous area are compatible with general lamps and lanterns in the market.



LM021

13.5X13.5X1.6mm



LM023

19X19X1.6mm

型号	电压等级	电流/mA	3000K,80CRI	3000K,90CRI	最大电流/mA
Product Type	VF(V)	IF(mA) typ.	典型光效	典型光效	IF(mA)max
			Typ.(lm/W)	Typ.(lm/W)	
LM021H384W-5B1C10(RaX)	30	150	105	92	150
LM021H384W-7B1C14(RaX)	42	150	104	90	150
LM023H384W-24B2C24(RaX)-S	72	300	113	100	300
LM023H384W-30B2C30(RaX)-S	90	300	113	100	300
LM023H384W-36B2C39(RaX)-S	117	300	110	95	300






COB LH Series (Flip chip)

倒装COB LH系列

型号	电压等级	电流/mA	3000K,80CRI	3000K,90CRI	最大电流/mA
P roduct Type	VF(V)	IF (mA) typ.	典型光效/ lm/W	典型光效/ lm/W	IF (mA) max
			典型光效/ lm/W	典型光效/ lm/W	IF (mA) max
LH021 13.5×13.5×1.6mm	42	150	94	82	150
LH022 13.5×13.5×1.6mm	108	150	103	90	150
LH023 19X19X1.6mm	186	150	96	85	150
LH023D101W-40B2C48(Ra2)-FC	144	300	93	80	300

■ Automotive Lighting
• 汽车照明系列



● 首个通过AEC-Q102、IEC60810双认证的中国国产车用LED品牌。满足中国GB、欧盟ECE、美国SAE。拥有IATF16949质量管理体系证书(TS16949转版)、ISO 14001证书、ISO 9001证书, 满足VDA6.3德国汽车标准要求。

- Pass the AEC-Q102 Automotive grade certification (The number one in the Asia to obtain the certification issued by SGS) 、IEC60810 certification of Lamps for road vehicles - Performance requirements. It can meet the requirement of Chinese GB、EU' S ECE、American SAE.
- With IATF16949 quality management system certification(TS16949 new version) 、ISO 14001 certification、ISO 9001 certification, it can meet the VDA6.3 German Automotive Standard requirements.

Product Family	Rated/Max current	Recommended /Max power	DWL/CCT (Cx,Cy)	Flux (@Rated current)	Vf (@Rated current)	Size	State
产品系列	额定/最大电流	建议/最大功率	典型波长 /色坐标	亮度	电压	尺寸	产品状态
Interior Lamp (内饰灯系列)							
MT2314	10mA/20mA 10mA/20mA 20mA/30mA	0.03W/0.10W	464-639nm 0.20,0.30 0.33,0.33 0.57,0.41	180-2100mcd	1.95-2.50V 2.05-2.65V 3.00-4.10V		Release 已量产
T3528	20mA/50mA	0.04W/0.20W	464-639nm 0.20,0.30 0.33,0.33 0.57,0.41	450-9700mcd	1.95-2.50V 2.05-2.65V 3.00-4.10V		Release 已量产
2835	20mA/50mA	0.04W/0.20W	464-639nm 0.20,0.30 0.33,0.33 0.57,0.41	1.12-14cd	1.95-2.50V 2.05-2.65V 3.00-4.10V		Release 已量产
Signal Lamp & Headlamp (信号灯系列/车头灯系列)							
2835	150mA/350mA	0.50W/1.00W	464-639nm 0.20,0.30 0.33,0.33 0.57,0.41	4.5-35cd	1.95-2.50V 2.05-2.65V 3.00-4.10V		Release 已量产
PT3528	50mA/70mA	0.10W/0.20W	583-639nm	0.90-5.66cd	1.90-2.50V 1.95-2.65V 2.05-2.65V		Release 已量产
APT3433	140mA/250mA	0.30W/1.00W	464-639nm 0.56,0.42 0.33,0.33	1.8-14cd	1.95-2.50V 2.05-2.65V 3.00-4.10V		Release 已量产
EMC3535	140mA/200mA /350mA	0.50W/0.7W /1.00W	612-624nm 0.57,0.42 0.33,0.33	11.2-22.4cd	2.05-2.65V 2.60-3.80V		Release 已量产
1613 2016 2318	250mA/350mA 500mA/700mA, 700mA/100mA, 350mA/700mA 1000mA/1500mA	0.50W/5.00W	585-635nm 0.57,0.42 0.33,0.33	18-350lm	1.90-2.70V 2.60-3.40V 2.60-3.40V 1.90-2.70V 2.60-3.40V		Pre-research 预研中
HBF	350mA/1500mA	3.00W/6.00W	0.57,0.42 0.32,0.33	250-400lm 500-900lm	2.75-3.75V 5.95-7.45V		Release 已量产

■ 车前灯
Head Lamp

■ 车尾灯
Tail Light

■ 仪表
Instrument

■ Ceramic Automotive Products for Aftermarket
• 陶瓷后装车灯产品

● 分立式器件: C2017/C2017-PB/C2525/C3535

热电分离设计、低热阻、高可靠性、设计灵活。

● 集成器件: C1860/C5530/C7035

单面出光, 芯片间隙小, 配合光学设计, 可最大限度的减少眩光, 最大限度的保证了发光面暗区, 明暗截止线清晰。

■ Discrete part: C2017/C2017-PB/C2525/C3535

Thermoelectric separation design, low thermal resistance, high reliability and flexible design.

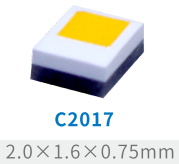
■ Integrated device: C1860/C5530/C7035

Single-sided light-emitting, small chip gap, match optical design, can minimize glare, to ensure there is no dark area on the luminous surface, clear cut-off line.

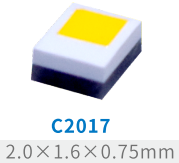
电压等级	产品型号	电流	6000K,70CRI		最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
3V	C2017K9W3CB(Ra1)-FC-LVR-CZ	1000	360	120	1500



电压等级	产品型号	电流	3160K 金黄光		最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
3V	C2017F35W3PB-FC-CZ	700	210	100	1000



电压等级	产品型号	电流	6000K,70CRI		最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
3V	C2017F35W3PB(Ra1)-FC-CZ	700	240	112	1000



电压等级	产品型号	电流	6000K,70CRI	3000K,70CRI	最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
3V	C3535F77W1GA(Ra1)-FC	350	160	140	1200
3V	C3535K9W1GA(Ra1)-FC	350	175	163	1200



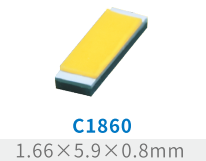
电压等级	产品型号	电流	6000K,70CRI		最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
3V	C2525F82W3EA(Ra1)-FC-CZ	700	260	118	800
3V	C2525F35W3EA(Ra1)-FC-CZ	700	280	130	1000



电压等级	产品型号	电流	6000K,70CRI		最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
9V	C1860K9W14NB-1B3C(Ra1)-FC-CZ	1200	1250	115	1500



电压等级	产品型号	电流	3160K 金黄光		最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
9V	C1860K9W14TB-1B3C-FC-CZ	1200	1200	111	1500



电压等级	产品型号	电流	6000K,70CRI		最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
9V	C5530K9W14NB-1B3C(Ra1)-FC-CZ	1500	1450	105	1500



电压等级	产品型号	电流	6000K,70CRI		最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
9V	C7035K9W18QB-2B3C(Ra1)-FC-CZ	2000	2100	118	2500



电压等级	产品型号	电流	6000K,70CRI		最大电流
VF(V)	Product Model	(mA)	光通量	光效	IF(mA)max
			Φ(lm)Typ	lm/wTyp	
9V	C7035K29W18NB-1B3C(Ra1)-FC-CZ	2000	2100	113	2500

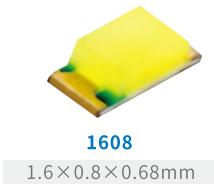


电压等级	产品型号	电流	6000K,70CRI	3000K,70CRI	最大电流
VF(V)	Product Model	(mA)	光效	光效	IF(mA)max
			lm/wTyp	lm/wTyp	
9V	C7035K9W18PB-2B3C-FC-CZ	1200*2	116	110	1200*2





■ Chip Series



1608

1.6×0.8×0.68mm



2012

2.0×1.25×0.68mm



3216

3.2×1.6×0.68mm



1608



2012



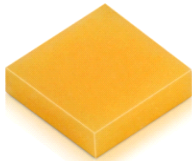
3216

- 低功耗, 宽视角;
- 色彩丰富, 设计灵活;
- 更好的方案针对指示和背光产品。。

- Low power consumption,wide viewing angle;
- Variety of color,Flexible design;
- Good solution for instruction and backlight.

电压等级	型号	发光颜色	测试电流	亮度	坐标	正向电压VF(V)		波长(nm)	
VF Typ.	Product Model	color	Test current (mA)	lv(mcd) typ.	x/y	Min	Max	Min	Max
2V	PST-1608S9AC	红光/Red	10	70	/	1.7	2.3	626	636
2V	PT-1608S52FC-L			120	/	1.7	2.3	615	625
2V	PST-1608S22OC	橙光 /Orange		110	/	1.7	2.3	600	610
2V	PST-1608S31YC	黄光 /Yellow		120	/	1.7	2.3	586	596
2V	PST-1608S11GC	绿光 /Green		35	/	1.7	2.3	568	578
3V	PST-1608U51GC			720	/	2.7	3.3	517	527
3V	PST-1608H203BC	蓝光 /Blue		140	/	2.7	3.3	464	474
3V	PST-1608H233W	白光 /White		600	0.26/0.255	2.7	3.3	/	/
3V				700	0.3045/0.308	2.7	3.3	/	/
2V	PSC-2012S35FC	红光/Red	20	330	/	1.8	2.4	617	627
2V	PSC-2012S22OC	橙光 /Orange		240	/	1.8	2.4	600	610
2V	PSC-2012S31YC	黄光 /Yellow		240	/	1.8	2.4	586	596
2V	PSC-2012S11GC	绿光 /Green		60	/	1.8	2.4	568	578
3V	PSC-2012U51GC			1200	/	2.8	3.4	515	525
3V	PSC-2012H203BC	蓝光 /Blue		270	/	2.8	3.4	464	474
3V	PSC-2012H233W	白光 /White		1500	0.26/0.255	2.8	3.4	/	/
3V				1700	0.3045/0.308	2.8	3.4	/	/
2V	PC-3216S9AC	红光/Red		20	160	/	1.8	2.4	626
2V	PC-3216S22OC	橙光 /Orange	240		/	1.8	2.4	600	610
2V	PC-3216S31YC	黄光 /Yellow	270		/	1.8	2.4	586	596
2V	PC-3216S11GC	绿光 /Green	65		/	1.8	2.4	568	578
3V	PC-3216U51GC		1100		/	2.8	3.4	515	525
3V	PC-3216H203BC	蓝光 /Blue	210		/	2.8	3.4	464	474
3V	PC-3216H233W	白光 /White	1200		0.26/0.255	2.8	3.4	/	/

■ CSP1313

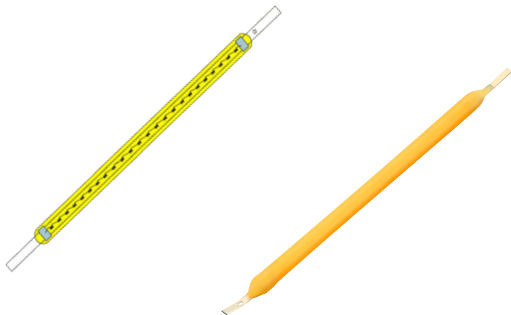


- 五面发光, 发光角度大;
 - 热阻低, 散热好, 可靠性高;
 - 高功率、高光密度;
 - 无键合线连接, 无支架/基板封装, 体积小, 设计和应用灵活。
- Five-sideslight-emitting, big viewing angle;
- Low thermal resistance, good heat dissipation and high reliability;
- High power and high luminous density;
- No bonding wire connection, no bracket / substrate package, small size, flexible design and application



型号 Product Type	电压等级 VF	色温 CCT	电流/mA IF (mA) typ.	光通量 Φ (lm) typ.	显色指数 CRI min	最大电流/mA IF (mA) max
CSP1313	3V	2700K	350	125	80	700
CSP1313	3V	6500K	350	135	80	700

■ LED Filament
• LED 灯丝



- 提高光效 降低成本
 - 复古情怀
 - 360°全周光
 - 高光效
- Improve light efficiency and cost down
- Classic feeling
- 360° full ambient light
- High light efficiency

产品型号	Dimensions	整灯光通量	芯片串数	色温(K)	显色指数	色区标准	测试电流	成品亮度	成品电压
Product Type	(mm)	(Lm)	Chips	CTT(K)	Ra	CIE Standard	(mA)	(lm)	(V)
C4015-1601F-N80-S	40*1.5*0.4	250	16	2725	≥80	ANSI/ERP	6	125-145	132-138
C3808-2401F-N80-S	38*1.90*0.4	470	24	2725	≥80	ANSI/ERP	13	130-150	66-72
C4015-2401H-N80-S	40*1.5*0.4	630	24	2725	≥80	ANSI/ERP	16	180-200	66-72
C4030-2501H-N80-S	40*3.0*0.4	806	25	2725	≥80	ANSI/ERP	20	265-285	66-72
C5315-2401H-N80-S	53*1.5*0.4	806	24	2725	≥80	ANSI/ERP	22	235-255	66-72
C5330-2501H-N80-S	53*3.0*0.4	1055	25	2725	≥80	ANSI/ERP	26	305-335	67-73
C6815-2501H-N80-S	68*1.5*0.4	1055	25	2725	≥80	ANSI/ERP	26	305-335	66-72
C6830-3801H-N80-S	68*3.0*0.4	1521	38	2725	≥80	ANSI/ERP	25	490-530	102-108

														
双色COB Double color COB		●		●										
COB LM		●	●	●						●	●			
高光密度COB HI High density COB HI			●	●										
CSP		●		●								●	●	●
2835-PCT	●	●									●			
2835-PPA					●	●	●	●						
3032 EMC	●	●								●	●	●		
5060								●						
3528								●						
3014					●			●						
4014					●	●								
5730				●	●	●		●						



球泡
Bulb



筒灯
Down light



PAR灯
PAR lamp



台灯
Table lamp



灯带
Strip light



路灯
Street light



手机闪光灯
Mobile flash



射灯
Spot light



面板灯
Panel light



灯管
Tube light



工矿灯
High bay



投光灯
Flood light



TV 背光
TV backlight



车灯
Automotive
lighting

