

## XcelLED EHP-AX08 Series (1W and 3W)

The Everlight XcelLED AX08 series is a newly developed LED commodity capable of implementation in any application. The XcelLED has demonstrated formidable efficiency and lumens output, capable of up to 85 lm/W. It has also performed exceedingly well in equally important criteria such as color uniformity and narrow, precise binning. The combination of Everlight's engineering flexibility and XcelLED AX08 series' versatility allows highly customizable end products. These devices are in mass production and are readily available.



XcelLED EHP-AX08 with Lambertian lens

### Features ▶

- Variety of industry standard colors
- Widely used industry standard size
- Variety of industry standard radiation patterns
- Multiple binning parameters:  $V_F$ ,  $I_v$ ,  $\lambda$
- Silicon lens for long operational lifetime

### Benefits ▶

- Highly competitive dollar/lumens and lumens/watt
- Versatility for many applications
- Narrow color binning
- Leading color uniformity
- Reflow solderable

### Applications ▶

- General lighting
- Architectural lighting
- Backlighting
- Emergency vehicle lighting
- Flashlight

Product Specifications ▶												
Part Number	Package Type	Color	Color Temp. (°K)	Dominant Wavelength (nm)	Max. Current (mA)	Tested Current (mA)	Forward Voltage (V)	Viewing Angle (°)	Luminous Flux (lm)	Luminous Intensity (mcd)	Markets	
EHP-AX08LS/SUR01H-P01	1W SMD	Red	-	620-630	500	350	2.05-2.95	130	33-52	-	CL FL TR BL SI	
EHP-AX08LS/US001H-P01		Red-orange	-	610-620	500	350	2.05-2.95	130	33-52	-	CL FL TR BL SI	
EHP-AX08LS/UY01H-P01		Amber	-	585-595	500	350	2.05-2.95	130	33-52	-	CL FL TR BL SI	
EHP-AX08LS/SUG01H-P01		Green	-	520-530	500	350	3.25-3.85	150	45-70	-	CL FL TR BL SI	
EHP-AX08LS/UB01C-P01		Blue	-	455-470	500	350	2.95-4.15	150	8-17	-	CL FL TR BL SI	
EHP-AX08LS/UB01H-P01		Blue	-	455-470	500	350	2.95-4.15	150	10-13	-	CL FL TR BL SI	
EHP-AX08LS/UBG01H-P01		Cyan	-	500-515	500	350	2.95-4.15	150	39-60	-	CL FL TR BL SI	
EHP-AX08LS/CT01C-P01		White	4,500-10,000	-	500	350	2.95-4.15	120	45-100	-	CL FL TR BL SI	
EHP-AX08LS/CT01H-P01		White	4,500-10,000	-	500	350	2.95-4.15	120	39-85	-	CL FL TR BL SI	
EHP-AX08LS/LM01C-P01		Warm white	2,670-4,500	-	500	350	2.95-4.15	120	33-85	-	CL FL TR BL SI	
EHP-AX08LS/LM01H-P01		Warm white	2,670-4,500	-	500	350	2.95-4.15	120	33-70	-	CL FL TR BL SI	
EHP-AX08LS/SUR01A-P03		3W SMD	Red	-	615-630	1,000	700	2.35-3.25	130	60-85	-	CL FL TR BL SI
EHP-AX08LS/SUG01H-P03			Green	-	515-535	1,000	700	3.25-4.15	140	100-130	-	CL FL TR BL SI
EHP-AX08LS/UB01C-P03			Blue	-	455-470	1,000	700	3.25-4.45	150	20-33	-	CL FL TR BL SI
EHP-AX08LS/UB01H-P03	Blue		-	455-470	1,000	700	3.55-4.45	140	23-39	-	CL FL TR BL SI	
EHP-AX08LS/CT01C-P03	White		4,500-10,000	-	1,000	700	3.25-4.45	120	85-200	-	CL FL TR BL SI	
EHP-AX08LS/LM01C-P03	Warm white		2,670-4,500	-	1,000	700	3.25-4.45	120	70-130	-	CL FL TR BL SI	

MARKETS LEGEND

CL COMMERCIAL LIGHTING FL FLASHLIGHTS TR TRANSPORTATION BL BACKLIGHTING SI SIGNAGE

Note: The EHP-AX08 series is available in Lambertian, batwing, focus, and side-emitting



Batwing



Focus



Side-emitting

## LED Modules

Everlight has progressed not only in achieving quality LEDs but in expanding our expertise to value-added LED solutions. Everlight's LED module designs demonstrate high lumens output, high fixture efficiency, optical acuteness, and proper thermal management. As with our LEDs, Everlight module solutions are highly customizable in regard to size, shape, color, and brightness. Therefore, it can be implemented into various real world applications. Everlight's Phoenix light engine can be implemented in general lighting. The Cobra was intended for T5 replacement. Everlight's proprietary MR16 design is a viable replacement for current halogen bulbs. The Dolphin is Everlight's creative design for streetlight, walkway light, or parking light applications. In order to fully support module opportunities, Everlight has optical, thermal, and circuitry design capabilities. Everlight's standard module capabilities allow for any scheme of LED population on PCB boards. These services provide a one-stop shop for all our customers.



Everlight Phoenix light engine

### Features ▶

- Value added module designs
- Variety of module selection
- Multiple binning parameters:  $V_F$ ,  $I_V$ ,  $\lambda$
- Optical, thermal, and circuit design assistance

### Benefits ▶

- Plug-and-play solutions
- High lumens output
- Leading color uniformity
- Strict color binning
- Versatility for many applications

### Applications ▶

- General lighting
- Architectural lighting
- Street lighting
- Emergency lighting

Product Specifications ▶											
Part Number	Type	Color	Color Temp. (°K)	Wavelength (nm)	Voltage (V)	Power Consumption (W)	Lens Type	Viewing Angle (°)	Luminous Flux (lm)*	Luminous Intensity (Lux @ 1m)	Markets
SL-16B/012AC/A/P05/15/5670	MR16	Cool white	5,670-7,000	-	12	4	-	15	120	930	CL
SL-16B/012AC/A/P05/15/2832		Warm white	2,850-3,250	-	12	4	-	15	100	573	CL
SL-Phoenix/12S4C/A/P120	Street lamp light engine	Cool white	4,550-7,000	-	46	120	-	110 x 30	6,500	-	CL FL BL
SL-Cobra/045DC/B/P12	LED strip	Cool white	5,650-7,000	-	45	12	-	-	-	670	CL FL BL
SL-Dolphin/100240AC/Ph120	Street lamp	Neutral white	4,550-7,000	-	100/240	120	-	110 x 30	6,500	-	CL FL BL
MARKETS LEGEND					CL COMMERCIAL LIGHTING	FL FLASHLIGHTS	TR TRANSPORTATION	BL BACKLIGHTING	SI SIGNAGE		

\*Tj=+25°C



Cobra



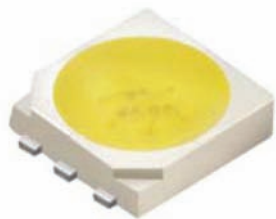
MR16



Dolphin



## White PLCC-6 for Signage and General Lighting Applications (0.2W) and EHP-B03 Series (5W)



67-235 series

The 67-235 PLCC-6 series was developed for low power, high lumens operation needed for many signage and general lighting applications. Everlight's expertise in package design and die management has produced a very effective package. It allows for cost and energy savings, precise binning for properly managed light output, and simple integration into designs. Everlight's 67-235 series contains three die, which are electrically isolated from each other and can be driven separately. Due to Everlight's ability to produce customized packages, other colors are also available.

The EHP-B03 series is Everlight's front runner in high-watt white LEDs, with 250 lm at 700 mA. Its convenient shape and size, paired with its capability of reflow solder make the EHP-B03 an easy-to-handle yet formidable LED.

### Features ▶

#### White PLCC-6

- PLCC-6 low-profile package
- Three low-power die
- Silicon lens
- Reflow solderable

#### EHP-B03 Series

- 250 lm at 700 mA
- Convenient package size
- Multiple binning parameters:  $V_F$ ,  $I_v$ ,  $\lambda$
- Thermal resistance is 9 K/W
- Reflow solderable

### Benefits ▶

#### White PLCC-6

- High lumens/watt
- Competitive lumens/dollar and dollar/package
- Low power operation for energy savings
- Isolated die

- Uniform spatial radiation pattern

#### EHP-B03 Series

- Highly competitive dollar/lumens and lumens/watt
- High lumens output
- Leading color uniformity
- Narrow warm white and cool white binning
- Versatility for many applications

### Applications ▶

#### White PLCC-6

- General lighting
- Backlighting
- Channel lettering
- Architectural lighting

#### EHP-B03 Series

- General lighting
- Architectural lighting
- Backlighting
- Emergency vehical lighting
- Flashlight

### Product Specifications ▶

Part Number	Package Type	Color	Color Temp. (°K)	Dominant Wavelength (nm)	Max. Current (mA)	Tested Current (mA)	Forward Voltage (V)	Viewing Angle (°)	Luminous Flux (lm)	Luminous Intensity (mcd)	Markets
67-235/S6P-RY1Z01/2T	0.2W SMD	White	2,670-10,000	-	90	60	2.7-3.7	120	-	2,850-5,700	CL FL TR BL SI
EHP-B03LS/UT04-P05	5W SMD	White	4,500-10,000	-	1,000	700	6.5-7.5	130	200-300	-	CL FL TR BL SI

MARKETS LEGEND

CL COMMERCIAL LIGHTING FL FLASHLIGHTS TR TRANSPORTATION BL BACKLIGHTING SI SIGNAGE



EHP-B03

## EVERspark EHP-A09 Series (0.5W)

Everlight's EVERspark EHP-A09 series is the ultimate solution for SMD mid-watt applications. It bridges the gap between high bright, low power and high lumens, high power LEDs. The EVERspark EHP-A09 provides a significant millicandela output per amount of power consumed. Configured to an industry standard PLCC-6 package, and reflow solderable, implementation/ replacement into current applications will be an easy task.



EVERspark EHP-A09

### Features ▶

- Variety of industry standard colors
- Widely used industry standard size
- Multiple binning parameters:  $V_F$ ,  $I_V$ ,  $\lambda$
- High luminous intensity output
- PLCC-6 SMD

### Benefits ▶

- Small package allows for smaller board and higher board density
- Highly competitive dollar/ lumens and lumens/watt
- Low power consumption for amount of luminous intensity

### Applications ▶

- Automotive: interior and exterior
- Solar lighting
- Architectural
- Indication
- Portable light sources

### Product Specifications ▶

Part Number	Package Type	Color	Color Temp. (°K)	Dominant Wavelength (nm)	Max. Current (mA)	Tested Current (mA)	Forward Voltage (V)	Viewing Angle (°)	Luminous Flux (lm)	Luminous Intensity (mcd)	Markets
EHP-A09/SUR01A-PU5	0.5W PLCC-6	Red	-	620-630	300	150	2.05-3.25	120	-	2,800-7,100	CL FL TR BL SI
EHP-A09/US001A-PU5		Red-orange	-	610-625	300	150	2.05-3.25	120	-	2,800-7,100	CL FL TR BL SI
EHP-A09/UY01A-PU5		Amber	-	585-595	300	150	2.05-3.25	120	-	2,240-7,100	CL FL TR BL SI
EHP-A09/SUG01H-PU5		Green	-	520-535	300	150	3.25-4.15	120	-	4,500-9,000	CL FL TR BL SI
EHP-A09/UB01H-PU5		Blue	-	460-470	300	150	2.95-3.85	120	-	1,120-2,240	CL FL TR BL SI
EHP-A09/CT01H-PU5		White	4,600-15,000	-	300	150	2.95-3.55	120	-	5,600-11,200	CL FL TR BL SI
EHP-A09/LM01H-PU5		Warm white	2,670-4,500	-	300	150	2.95-3.85	120	-	4,500-9,000	CL FL TR BL SI

MARKETS LEGEND

CL COMMERCIAL LIGHTING FL FLASHLIGHTS TR TRANSPORTATION BL BACKLIGHTING SI SIGNAGE