



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

The Everlight XcelLED AX08 series is a newly discovered LED commodity capable of implementation in any application. The XcelLED has demonstrated formidable efficiency and lumen output, capable of up to 90 lm/W. It has also performed exceedingly well in equally important criteria such as color uniformity, narrow, precise binning, and acceptable lead times. The combination of Everlight's engineering flexibility and XcelLED AX08 series' versatility allows highly customizable end products.



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 , λ , CCT
- Silicon lens for long operational lifetime

Benefits ▶

- 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 (deg)	Luminous Flux (lm)	Luminous Intensity (mcd)	Markets
EHP-AX08LS/SUR01A-P01	1W SMD	Red	NA	615-630	550	350	2.05-2.95	120	27-45	NA	CL FL TR BL SI
EHP-AX08LS/SUR01-P01		Red	NA	615-630	550	350	2.05-2.95	120	27-39	NA	CL FL TR BL SI
EHP-AX08LS/US001-P01		Red orange	NA	610-620	550	350	2.05-2.95	120	27-45	NA	CL FL TR BL SI
EHP-AX08LS/UY01-P01		Amber	NA	585-595	550	350	2.05-2.95	120	27-45	NA	CL FL TR BL SI
EHP-AX08LS/SUG01FI-P01		Green	NA	520-530	500	350	3.45-4.35	120	45-85	NA	CL FL TR BL SI
EHP-AX08LS/SUG01-P01		Green	NA	520-530	500	350	3.25-4.15	120	39-52	NA	CL FL TR BL SI
EHP-AX08LS/UB01CE-P01		Blue	NA	460-465	500	350	2.9-3.6	120	13-23	NA	CL FL TR BL SI
EHP-AX08LS/UB01-P01		Blue	NA	460-470	500	350	3.25-3.85	120	8-17	NA	CL FL TR BL SI
EHP-AX08LS/DT01CE-P01		White	4,500-10,000	NA	1,000	350	2.95-3.85	120	60-85	NA	CL FL TR BL SI
EHP-AX08LS/DT01K-P01		White	4,500-10,000	NA	500	350	3.25-3.85	120	52-70	NA	CL FL TR BL SI
EHP-AX08LS/DT01-P01		White	4,500-10,000	NA	500	350	3.25-3.85	120	39-52	NA	CL FL TR BL SI
EHP-AX08LS/LM01CE-P01		Warm white	2,500-4,500	NA	1,000	350	2.95-3.85	120	45-60	NA	CL FL TR BL SI
EHP-AX08LS/LM01K-P01		Warm white	2,500-4,500	NA	500	350	3.25-3.85	120	39-52	NA	CL FL TR BL SI
EHP-AX08LS/LM01-P01		Warm white	2,500-4,500	NA	500	350	3.25-3.85	120	27-39	NA	CL FL TR BL SI
EHP-AX08LS/SUR01A-P03	3W SMD	Red	NA	620-630	550	350	2.05-2.95	120	52-70	NA	CL FL TR BL SI
EHP-AX08LS/VY01A-P03		Amber	NA	585-595	550	350	2.35-3.25	120	52-85	NA	CL FL TR BL SI
EHP-AX08LS/SUG11-P03		Green	NA	515-535	500	350	3.25-4.15	120	85-130	NA	CL FL TR BL SI
EHP-AX08LS/UB11-P03		Blue	NA	460-470	500	350	3.25-4.15	120	17-27	NA	CL FL TR BL SI
EHP-AX08LS/UT01CE-P03		White	4,500-10,000	NA	1,000	350	3.25-4.15	120	85-160	NA	CL FL TR BL SI
EHP-AX08LS/DT21C-P03		White	4,500-10,000	NA	700	350	3.25-4.15	120	70-130	NA	CL FL TR BL SI
EHP-AX08LS/LM21C-P03		Warm white	2,500-4,500	NA	700	350	3.25-4.15	120	52-70	NA	CL FL TR BL SI
EHP-AX08LS/LM01CE-P03		Warm white	2,500-4,500	NA	1,000	350	3.25-4.15	120	70-130	NA	CL FL TR BL SI

MARKETS LEGEND

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Note: The EHP-AX08 Series is available in lambertian, batwing, side-emitting, and focus lenses



Batwing



Focus



Side-emitting

EHP-A07 Series (1W) and EHP-B03 Series (5W)

Everlight offers high-bright/high-power solutions that emits great light in a small-profile package. The small package allows for smaller board size and thinner profiling. The EHP-A07 series is available in all standard industry colors and can be tightly binned for warm white and cool white applications.

The EHP-B03 series is Everlight's front runner in high-watt white LEDs, exuding 190 lm at 700 mA. A convenient shape and size, silicone encapsulation, low-thermal resistance, and capability to be reflow soldered make the EHP-B03 an easy to handle yet formidable LED.



EHP-A07

Features ▶

EHP-A07 Series

- Low profile
- Silicone encapsulation
- Thermal resistance of 17 K/W
- Variety of industry standard colors
- Multiple binning parameters: V_F , I_v , λ , CCT

EHP-B03 Series

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

Benefits ▶

EHP-A07 Series

- Allows for a low profile
- Narrow color binning

EHP-B03 Series

- High lumens output
- Leading color uniformity
- Narrow warm white and cool white binning

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 (deg)	Luminous Flux (lm)	Luminous Intensity (mcd)	Markets
EHP-A07 SUR01-P01	1W SMD	Red	NA	610-625	500	350	2.05-2.95	120	23-39	NA	CL FL TR BL SI
EHP-A07 VY01-P01		Amber	NA	587.5-595	500	350	2.05-2.95	120	17-33	NA	CL FL TR BL SI
EHP-A07-SUG01-P01		Green	NA	515-535	500	350	~3.1	120	33-60	NA	CL FL TR BL SI
EHP-A07 UB01-P01		Blue	NA	450-465	500	350	~3.5	120	4-13	NA	CL FL TR BL SI
EHP-A07 UT01K-P01		White	4,500-10,000	NA	500	350	3.25-4.15	120	39-52	NA	CL FL TR BL SI
EHP-A07 UT01-P01		White	4,500-10,000	NA	500	350	3.25-4.15	120	23-39	NA	CL FL TR BL SI
EHP-A07-LM01K-P01		Warm white	2,500-4,500	NA	500	350	2.95-3.85	120	45-70	NA	CL FL TR BL SI
EHP-B03LS/UT04-P05	5W SMD	White	4,500-10,000	NA	1,000	700	6.6-8.0	130	130-250	NA	CL FL TR BL SI

MARKETS LEGEND

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EHP-B03



EHP-5393 and EHP-1103 10 mm Lamp Series (1W) and Oval LEDs

Everlight has developed a robust 10 mm thru-hole 1W package. Featuring a high-luminous intensity, uniform light pattern, and highly effective heat sink in the lead frame, this lamp was originally designed for the flashlight market segment. However, with growing interest in other markets and outstanding performance, the EHP-5393 and EHP-1103 can be used in many other applications as well.



EHP-5393 and EHP-1103

Features ▶

EHP-5393 and EHP-1103

- 10 mm thru-hole
- High-luminous intensity of 37 lm at 350 mA
- Built-in heat sink

Oval LEDs

- Multiple viewing angle options: 110/50, 110/40, 70/40
- UV-protective encapsulation

Benefits ▶

EHP-5393 and EHP-1103

- Robust thru-hole design
- Uniform light pattern
- Excellent heat dissipation

Oval LEDs

- High brightness
- ESD protected

Applications ▶

EHP-5393 and EHP-1103

- Flashlight
- General lighting
- Architectural lighting

Oval LEDs

- Commercial lighting
- Transportation
- Signage

Product Specifications ▶

Part Number	Package Type	Color	Color Temp. (°K)	Dominant Wavelength (nm)	Max. Current (mA)	Tested Current (mA)	Forward Voltage (V)	Viewing Angle (deg)	Luminous Flux (lm)	Luminous Intensity (mcd)	Markets
EHP-5393/SUR01-P01	1W 10 mm lamp	Red	NA	620-628	350	350	2.0-3.0	25	27-45	NA	CL FL TR SI
EHP-5393/UY01-P01		Yellow	NA	584-596	350	350	2.0-3.0	25	27-52	NA	CL FL TR SI
EHP-5393/SUG01-P01		Green	NA	520-536	350	350	3.0-4.0	25	45-75	NA	CL FL TR SI
EHP-1103/SUR01-P01		Red	NA	620-628	350	350	2.0-3.0	100	27-45	NA	CL FL TR SI
EHP-1103/UY01-P01		Yellow	NA	584-596	350	350	2.0-3.0	100	27-52	NA	CL FL TR SI
EHP-1103/SUG01-P01		Green	NA	520-536	350	350	3.0-4.0	100	45-65	NA	CL FL TR SI
EHP-5393/SUB01-P01	1W 10 mm lamp with silicone	Blue	NA	464-476	350	350	3.0-4.0	25	8-22	NA	CL FL TR SI
EHP-5393/UT31C-P01		White	4,500-10,000	NA	350	350	3.0-4.0	25	33-53	NA	CL FL TR SI
EHP-1103/SUB01-P01		Blue	NA	464-476	350	350	3.0-4.0	100	8-22	NA	CL FL TR SI
EHP-1103/UT31C-P01		White	4,500-10,000	NA	350	350	3.0-4.0	100	33-53	NA	CL FL TR SI
5484-BADC-AHKA-X-MS	Oval LED	Blue	NA	465-475	50	20	2.8-3.6	110/40	NA	715-1,425	CL TR SI
5484-GADC-APRA-X-MS		Green	NA	525-535	50	20	2.8-3.6	110/40	NA	2,850-5,650	CL TR SI
5484-R7DC-ALNB-X-MS		Red	NA	620-628	50	20	1.8-2.6	110/40	NA	1,425-2,850	CL TR SI

MARKETS LEGEND

CL COMMERCIAL LIGHTING

FL FLASHLIGHTS

TR TRANSPORTATION

BL BACKLIGHTING

SI SIGNAGE