

Optical Sensors AN EYE FOR BRILLIANCE – UNDER ALL CONDITIONS

EVERLIGHT's family of Ambient Light Sensors provides cost efficient power-saving functions for state-of-the-art mobile devices. Besides a significant boost of operating time per battery charge, EVERLIGHT optical sensors also ensure better protection for actively supporting the automatic brightness adjustment. As the main components resulting top video quality under all light conditions, triggered by the human want, are also fully to adapt. Ambient Light Sensors are the key for the flexible adjustment of brightness and light settings according to the light conditions. Key applications for advanced EVERLIGHT photodiode components are TV sets and monitors, digital camera, camera controls, zoom image sensors and intelligent image lights that start operation exactly when it is needed and a selected status.

Ambient Light Sensor + Proximity Sensor + IR LED

Product Name	EV-A194S1022A-010Q061718	EV-A194S1022A-0114Q061718	EV-A194S1022A-0114Q061718
Product Picture			
Dimensions	3.67x3.81x1.55	3.27x3.81x1.55	3.27x3.81x1.55
Output	Digital	Digital	Digital
Interface	IO	IO	IO
Resolution	16bit ALS / 12bit Proximity	16bit ALS / 12bit Proximity	16bit ALS
Supply Voltage	2.4 ~ 3.0V	2.4 ~ 3.0V	2.4 ~ 3.0V
Supply Current	100uA	100uA	100uA
Shutdown Current	1.0uA	1.0uA	1.0uA
Intermittent Function	YES	YES	YES
Ambient Light Sensing	YES	YES	N/A
Detection Range	0.0203 ~ 51.8000lx	0.0033 ~ 0.1330lx	0.0033 ~ 0.1330lx
Photo Sensing Function	YES	YES	N/A
IR LED Output Current	10 ~ 200mA	N/A	N/A
Application	Backlight Dimming / Smartphone / Tablet / PC / Digital Light Management	Backlight Dimming / Smartphone / Tablet / PC / Digital Light Management	Backlight Dimming / Smartphone / Tablet / PC / Digital Light Management
Product Name	EV-A194S1022A-010Q061718	EV-A194S1022A-0114Q061718	EV-A194S1022A-0114Q061718
Product Picture			
Dimensions	3.67x3.81x1.55	3.27x3.81x1.55	3.27x3.81x1.55
Output	Digital	Digital	Digital
Interface	IO	IO	IO
Resolution	16bit ALS / 12bit Proximity	16bit ALS / 12bit Proximity	16bit ALS
Supply Voltage	2.4 ~ 3.0V	2.4 ~ 3.0V	2.4 ~ 3.0V
Supply Current	100uA	100uA	100uA
Shutdown Current	1.0uA	1.0uA	1.0uA
Intermittent Function	YES	YES	YES
Ambient Light Sensing	YES	YES	N/A
Detection Range	0 ~ 133.00lx	0 ~ 10.00lx	0.0203 ~ 51.8000lx
Photo Sensing Function	YES	YES	N/A
IR LED Output Current	N/A	N/A	N/A
Application	Smartphone / Tablet / PC / Backlight Dimming	Smartphone / Tablet / PC / Backlight Dimming / Wearable Devices	Backlight Dimming / Smartphone / Smartphone / Tablet / Digital Light Management / Color Correction



Your source of information: www.everlight.com or all global EVERLIGHT representatives and distributors worldwide. Structure and model names on customer request.

HEADQUARTERS
No. 68, Chengde Rd., Shilin Dist., New Taipei City, Taiwan 23960
TEL: +886(2)2610-6888 FAX: +886(2)2610-6889
www.everlight.com

ASIA
CHINA
CHINA (HONG KONG)
EVERLIGHT ELECTRONIC CO., LTD.
Unit 1806-1810, 18/F., Prosperity Plaza,
65 Sang Ye Street, Hsien Tung Kowloon,
Hong Kong
TEL: +852(2)41-8260
FAX: +852(2)41-8261
EMAIL: everlight@everlight.com

CHINA (SHENZHEN)
EVERLIGHT ELECTRONIC CO., LTD.
Room 1102-1103, 2A Building, Period 1,
Ban An East Side, Nanshan District,
Shenzhen City, Guangdong Province, China
Postcode: 518010
TEL: +86(755)2416-8260
FAX: +86(755)2416-8261
EMAIL: everlight@everlight.com

CHINA (GUANGZHOU)
EVERLIGHT ELECTRONIC CO., LTD.
508 Room, Bantou Building 131, Dongping Road,
Pan Yu District, Guangzhou City, Guangdong, China
Postcode: 511410
TEL: +86(20)8496-5372
FAX: +86(20)8496-5373
EMAIL: everlight@everlight.com

CHINA (SHANGHAI)
EVERLIGHT ELECTRONIC CO., LTD.
Room 100, Meiluan Building, the valley of
Innovation, No. 57, New Road, Three Road,
Nanshan District, Shanghai, China
Postcode: 200120
TEL: +86(21)2480-5888
FAX: +86(21)2480-5889
EMAIL: everlight@everlight.com

INDIA (NEW DELHI)
EVERLIGHT ELECTRONIC INDIA PRIVATE LTD.
No. 036, 6th Floor, Surya Kirti Building,
Connaught Place, New Delhi, India - 110029
Mobile: +91(11)4467777
EMAIL: everlight@everlight.com

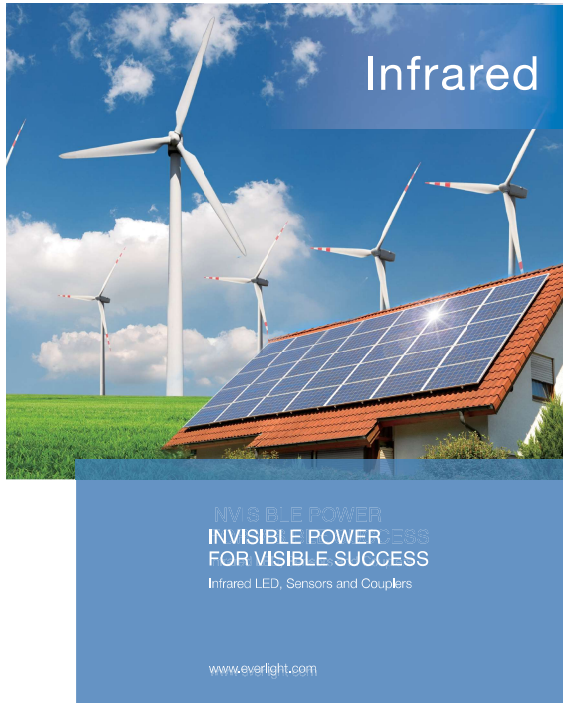
EUROPE
GERMANY (KARLSRUHE)
EVERLIGHT ELECTRONIC EUROPE GMBH
Sternstrasse 10, 76182 Karlsruhe, Germany
TEL: +49(7243)924-1
FAX: +49(7243)924-240
EMAIL: everlight@everlight.com

EUROPE (MUNICH)
EVERLIGHT ELECTRONIC EUROPE GMBH
Sternstrasse 10, 80335 München, Germany
TEL: +49(89)24392-1
FAX: +49(89)24392-240
EMAIL: everlight@everlight.com

EUROPE (PARIS)
EVERLIGHT ELECTRONIC EUROPE GMBH
11, rue de Valenciennes, 75013 Paris, France
TEL: +33(1)42444444
FAX: +33(1)42444444
EMAIL: everlight@everlight.com

EUROPE (MILAN)
EVERLIGHT ELECTRONIC EUROPE GMBH
Via S. Felice 10, 20122 Milano, Italy
TEL: +39(02)76000000
FAX: +39(02)76000000
EMAIL: everlight@everlight.com

EUROPE (LONDON)
EVERLIGHT ELECTRONIC EUROPE GMBH
100, Brook Street, London, W1S 1LW, UK
TEL: +44(0)2074944444
FAX: +44(0)2074944444
EMAIL: everlight@everlight.com



Copyright © EVERLIGHT 2024

Infrared LED A CLEAR SIGNAL OF QUALITY

The possible field of application for high-quality infrared components reflects the high grade of today's technical progress and its quality – so does the impressive portfolio of EVERLIGHT Infrared LEDs. It offers a wide choice of package designs for infrared emitting diodes, photodiodes, photo-transistors or Photo ICs, covering all common standard packages like SMD, DIP, PLCC or other housings. EVERLIGHT packages you with excellent solutions that fit a wide range of requirements – for a broad variety of applications. The perfect source of information for engineering consult.

Infrared Components

Product Name	EV-I194H10L01V1718	EV-I194H10L102D	EV-I194H10L101718	EV-I194H10L1010D	B49C008-C002-485
Product Picture					
Package and Description	Top / Side View	Top / Side View	Top / Side View	Top / Side View	SMD LED with dual connection
Dimensions	1.91x2.91x1	3.75x4.11	3.75x3.91x1.2	4.75x3.91x1	2.27x3.91x1
Peak Wavelength (nm)	940nm	850nm	850nm	940nm	850nm/940nm
View Angle	100x100°(V)	100x100°(V)	30°	75x75°(V)	60°(Wavelength 850nm)
Output Current (mA @V)	40mA@V	30mA@V	20mA@V	11mA@V	Type 3, 5mA@V, Type 3, 5mA@V

Product Name	EV-I44B0020020W-100312	EV-I44B0020020W-100312	EV-I44B0020020W-100312	EV-I44B0020020W-100312	EV-I44B0020020W-100312
Product Picture					
Package and Description	Top view	Top view	Top view	High Power Emitter L.L.L.	High Power Emitter L.L.L.
Dimensions	3.27x2.61x2	1.87x1.87x1.6	1.87x1.87x1.6	3.27x2.61x2	2.87x2.61x2
Peak Wavelength (nm)	850nm/940nm/940nm	850nm/940nm/940nm	850nm/940nm/940nm	850nm/940nm	940nm
View Angle	10°	120°	80/150°	90°	120°
Output Current (mA @V)	100mA@200mV	100mA@200mV	100mA@200mV	100mA@200mV	100mA@200mV

Product Name	EV-I194H10L01V1718	EV-I194H10L01V1718	EV-I194H10L01V1718	EV-I194H10L01V1718
Product Picture				
Package and Description	Top / Side View	Top / Side View	Top / Side View	Top / Side View
Dimensions	1.91x2.91x1.2	3.75x4.11	3.75x3.91x1.2	4.75x3.91x1
Peak Wavelength (nm)	940nm	850nm	850nm	940nm
Output Current	25mA	20mA	4mA	25mA

Product Name	EV-I194H10L01V1718	EV-I194H10L01V1718	EV-I194H10L01V1718	EV-I194H10L01V1718
Product Picture				
Package and Description	SMD package, Photodiode	Top view	SMD package, Photodiode	Top view
Dimensions	3.27x2.61x1	3.27x2.61x1	3.27x2.61x1	4.75x3.91x1
Peak Wavelength (nm)	940nm	940nm	940nm	940nm
Output Current	6.5mA	35mA	21mA	42mA

www.everlight.com

EVERLIGHT

Maximizing lifecycle with maximum respect for the cycle of life.



Your source of information: www.everlight.com or all global EVERLIGHT representatives and distributors worldwide. Structure and model names on customer request.

