



# INVISIBLE POWER FOR VISIBLE SUCCESS

Infrared LED, Sensors and Couplers

[www.everlightamericas.com](http://www.everlightamericas.com)

**EVERLIGHT**  
— AMERICAS

**ASIA****CHINA****CHINA, HONG KONG**

EVERLIGHT ELECTRONICS CO., LTD.  
Units 1606-1610, 16/F., Prosperity Place,  
6 Shing Yip Street, Kwun Tong, Kowloon,  
Hong Kong  
TEL: +852-23880602  
FAX: +852-23881127, 23843092

**CHINA, SHENZHEN**

EVERLIGHT ELECTRONICS CO., LTD.  
Room 305A - 306, The third floor of The  
Second building in Zone A ,Internet Industry ,  
Baoyuan Road ,Bao'an District, Shenzhen,  
Guangdong, China  
Postcode: 518010  
TEL: +86-0755-2163-8863  
FAX: +86-0755-2163-8620

**CHINA, GUANGZHOU**

EVERLIGHT ELECTRONICS CO., LTD.  
1501 15 F1.,No.266 Xi Huan Road,  
Sha Tou Street, Panyu District,  
Guangzhou, China  
Postcode: 511400  
TEL: +86-(0)20-84663392  
FAX: +86-(0)20-84663372

**CHINA, XIAMEN**

EVERLIGHT ELECTRONICS CO., LTD  
Room6A25, Xiamen Huli District  
An Ling Lake Road Huijin Building  
Xiamen,Fujian , China  
Postcode: 361000  
TEL: +86- 4006-258-289

**CHINA, CHONGQING**

EVERLIGHT ELECTRONICS CO., LTD  
Room 21-3, Building A1, Bin Xin City ,  
Yangjiaping Century ,Jiulongpo District,  
Chongqing , China  
Postcode: 400050  
TEL: +86- 4006-258-289

**CHINA, SUZHOU**

EVERLIGHT ELECTRONICS CO., LTD.  
Room 306-308, Block 1, Runjie Square, No. 9,  
Road Dengwei, Suzhou (SND), Jiang Su, China  
Postcode: 215011  
TEL: +86-(0)512-68020883

**CHINA, QINGDAO**

EVERLIGHT ELECTRONICS CO., LTD.  
Room 317 (Building Dingdu), No. 133, Rd.  
Fuzhou-North, District Shibei, Qingdao,  
Shandong, China  
TEL: +86-532-8091-6675  
FAX: +86-532-8079-7372

**CHINA, TIANJIN**

EVERLIGHT ELECTRONICS CO., LTD  
No. Room 810,Technology Finance Building,No 32.  
AnShan Road,HePing District,TianJin,China  
Postcode: 300020  
TEL: +86-22-26351122, 26351133

**CHINA, BEIJING**

EVERLIGHT ELECTRONICS CO., LTD  
Room 201, Unit 2, Building 13,  
Jiugong Jiahe Garden, Daxing District,  
Beijing , China  
Postcode: 102600  
TEL: +86- 4006-258-289

**KOREA**

EVERLIGHT OPTOELECTRONICS  
KOREA CO., LTD.  
7F S706-1 Garden 5 Works Choongmin Rd 52. ,  
Songpa-gu, Seoul , KOREA .  
TEL: +82-2-2047-3960  
FAX: +82-2-2047-3961  
EMAIL: terrychoi@everlight.com

**JAPAN, TOKYO**

EVERLIGHT JAPAN CORPORATION  
4F MITA SUN BLDG., 1-3-35 MITA,  
MINATO-KU, TOKYO, 108-0073, JAPAN  
TEL: +81-3-5439-9296  
FAX: +81-3-5439-9288  
EMAIL: elj@everlight.com

**JAPAN, KYOTO**

EVERLIGHT JAPAN CORPORATION  
7F, MITSUISEIMEI KYOTO YAMASHINA BLDG.  
46-1, TAKEHANADOUNOMAECHOU,  
YAMASHINA KU, KYOTO, 607-8085, JAPAN  
TEL: +81-75-584-6070  
FAX: +81-75-584-6080  
EMAIL: everlightjapan@everlight.com

**INDIA, BANGALORE**

EVERLIGHT ELECTRONICS INDIA PVT LTD  
Suit No. 3, 2nd Floor  
Alpha Block. Sigma Soft Tech Park.  
Varthur Kodi. Whitefield Main Road.  
Bangalore: 560066  
TEL: +91-080-41633111, +91-080-41623111  
FAX: +91-080-41622111  
EMAIL: salesindia@everlight.com

**INDIA, DELHI**

EVERLIGHT ELECTRONICS INDIA PRIVATE LTD.  
Regus Green Boulevard  
Level-5, Tower C, 3C Green Boulevard, Block B,  
Sec-62, Noida:201301  
TEL: +91-120-6608019  
MOBEL: +91-981-1831442  
EMAIL: anuj@everlight.com

**MALAYSIA**

EVERLIGHT OPTOELECTRONICS(M) SDN BHD  
B-04-20 Krystal Point,  
303 Jalan Sultan Azlan Shah,  
11900 Penang, Malaysia  
TEL: +60-4-646-4233  
FAX: +60-4-646-5233  
EMAIL: inquiry@everlight-pg.com.my

**SINGAPORE**

EVERLIGHT ELECTRONICS SINGAPORE PTE LTD  
50 Tagore Lane , #04-11D,  
Entrepreneur Centre, Singapore 787494.  
TEL: +65-6511-2965  
FAX: +65-6338-5486  
EMAIL: contact@everlight.com.sg

**AMERICA****TEXAS USA**

EVERLIGHT AMERICAS INC.  
3220 Commander Dr. Suite 100  
Carrollton,Texas, 75006, United States  
TEL: +1-972-490-4008  
FAX: +1-972-490-5009  
EMAIL: salesmarketing@everlightamericas.com

**CALIFORNIA USA**

EVERLIGHT AMERICAS INC.  
3280 E Guasti Road, Suite 200  
Ontario, California 91761, United States  
TEL: +1-909-937-6070  
FAX: +1-909-937-7619  
EMAIL: salesmarketing@everlightamericas.com

**EUROPE****GERMANY, HQ**

EVERLIGHT ELECTRONICS EUROPE GMBH  
Siemensallee 84, Building 7302, 5F  
76187 Karlsruhe, Germany  
TEL: +49-721-82447-3  
FAX: +49-721-82447-40  
EMAIL: Info@everlight-eu.de

**GERMANY, MUNICH**

EVERLIGHT ELECTRONICS EUROPE GMBH  
Rote-Kreuz-Strasse 8, D-85737 Ismaning, Germany  
TEL: +49-89-9400336-0  
FAX: +49-89-9400336-29  
EMAIL: info@everlight-eu.de

**HEADQUARTERS**




No. 6-8, Zhonghua Rd., Shulin Dist., New Taipei City, Taiwan 23860  
TEL: +886-2-2685-6688 FAX: +886-2-2685-6699

[www.everlight.com](http://www.everlight.com)








## Zero Cross Type

Product Name	EL304X/306X/308X	ELT304X/T306X/T308X	ELM304X/M306X/M308X
Picture			
Dimension(mm)	7.12*6.5*3.5	6.5*4.28*3.5	4.4*4.1*2.0
Key Spec.	VDRM=400, 600, 800V IFT= 5, 10, 15mA		VDRM=400, 600, 800V IFT= 3, 5, 10mA
Viso(Vrms)	5000		3750
IF(mA)	60		
Applications	<ul style="list-style-type: none"> <li>· Light controls</li> <li>· Static power supply</li> <li>· Temperature controls</li> <li>· AC motor starters</li> <li>· Solid state relays</li> </ul>		

## Random Phase Type

Product Name	EL302X/305X	ELT302X/T305	ELM302X/M305X
Picture			
Dimension(mm)	7.12*6.5*3.5	6.5*4.58*3.5	4.4*4.1*2.0
Key Spec.	VDRM=400, 600V IFT= 5, 10, 15mA		VDRM=400, 600V IFT= 3, 5, 10mA
Viso(Vrms)	5000		3750
IF(mA)	60		
Applications	<ul style="list-style-type: none"> <li>· Switching mode power supply</li> <li>· Computer peripheral interface</li> <li>· Line receiver</li> <li>· Microprocessor system interface</li> </ul>		

Maximizing lifecycles with  
maximum respect  
for the cycle of life.



Your source of information : enter [www.everlightamericas.com](http://www.everlightamericas.com) for all advanced  
EVERLIGHT optoelectronic products and updated specifications.  
Structure and material depend on customer request.



## Photo Coupler

Product Name	EL1010-G	EL1110-G	EL617	EL8171	EL852	EL452-G
Picture						
Dimension(mm)	7.6*3.6*2.0	7.6*3.6*2.0	6.6*4.68*3.5	6.5*4.58*3.5	6.5*4.58*3.5	4.4*4.1*2.0
Vf_Typ (V)	1.45	1.45	1.2	1.2	1.2	1.2
Rise/ Fall Time (μs)	2/3	2/3	4/3	6/8	300/100	300/100
BVCEO_Min(V)	80V	80V	80V	70V	350V	350V
Viso (Vrms)	5000V	5000V	5000V	5000V	5000V	3750V
CTR Rank	50~600% (If=5mA, Vec=5V)	50~600% (If=5mA, Vec=5V)	50~600% (If=5mA, Vce=5V)	100~300% (If=0.5mA, Vce=5V)	1000~15000% (If=1mA, Vce=2V)	Min 1000% (If=1mA, Vce=2V)
VCE(SAT)_Max(V)	0.3	0.4	0.2	0.2	1.2	1.5
Application	<ul style="list-style-type: none"> <li>· Power supply/</li> <li>· Programmable controllers/</li> <li>· Measuring instruments/</li> <li>· Telecommunication equipments/</li> <li>· Home appliances/</li> <li>· Signal transmission between circuits of different potentials and impedances</li> </ul>					

Product Name	ELD3H7	ELQ3H7	EL121N	EL827	EL847
Picture					
Dimension(mm)	5.2*4.4*2.0	10.28*4.4*2.0	4.4*3.6*2.0	9.76*6.5*3.5	19.85*6.5*3.5
Vf_Typ (V)	1.2	1.2	1.2	1.2	1.2
Rise/ Fall Time (μs)	5/3	5/3	3/4	3/4	4/3
BVCEO_Min(V)	80V	80V	80V	80V	80V
Viso (Vrms)	3750V	3750V	3750V	5000V	5000V
CTR Rank	50~600% (If=5mA, Vce=5V)	50~600% (If=5mA, Vce=5V)	50~600% (If=5mA, Vce=5V)	50~600% (If=5mA, Vce=5V)	50~600% (If=5mA, Vce=5V)
VCE(SAT)_Max(V)	0.2	0.2	0.2	0.2	0.2
Application	<ul style="list-style-type: none"> <li>· DC-DC Converters</li> <li>· Programmable controllers</li> <li>· Telecommunication equipments</li> <li>· Signal transmission between circuit of different potentials and impedances</li> </ul>				
	<ul style="list-style-type: none"> <li>· Programmable controllers</li> <li>· System appliances, measuring instruments</li> <li>· Telecommunication equipments</li> <li>· Home appliances, such as fan heaters, etc.</li> <li>· Signal transmission between circuits of different potentials and impedances</li> </ul>				

Maximizing lifecycles with maximum respect for the cycle of life.



Your source of information : enter [www.everlightamericas.com](http://www.everlightamericas.com) for all advanced EVERLIGHT optoelectronic products and updated specifications.  
Structure and material depend on customer request.



# Photo Couplers








## COMBINING PERFORMANCE WITH EFFICIENCY

In order to provide the best fit for your demand, EVERLIGHT photocouplers come in a wide range of established SOP and DIP chip carrier types. Powerful input functions cover DC sensing, DC threshold sensing or AC sensing. Optional output functions are transistor, darlington, triac, Schmitt trigger or high speed transistor.





EVERLIGHT optocouplers are designed for the use in low-bandwidth, general switching applications and in high-voltage applications for AC load switching. Common end products featuring photocouplers include appliances, temperature controls, air conditioners (HVAC), vending machines, lighting controls, battery chargers and isolated power supplies.

## High Speed Coupler


### High Speed Coupler 1M bps

Product Name	6N135	6N136	EL4502	EL4503	EL4504	EL0500	EL0501	EL0452	EL0453	ELM452	ELM453	ELW135	ELW136
Picture													
Dimension(mm)	9.76*6.6*3.5		9.76*6.6*3.5		9.76*6.6*3.5	4.88*3.92*3.18		4.88*3.92*3.18		4.4*4.1*2		11.15*9*3.9	
CTR	7~50%   19~50%		19~50%		25~60%	7~50%   19~50%		19~50%		20~50%		7~50%   19~50%	
CMR	1000		1000   15000		15000	1000		1000   15000		5000   15000		1000	
Vcc (V)	30												
Io (mA)	8												
Applications	<div><div><ul style="list-style-type: none"><li>· Line receivers</li><li>· Telecommunication equipments</li><li>· Power transistor isolation in motor drives</li><li>· Replacement for low speed phototransistor photo couplers</li></ul></div><div><ul style="list-style-type: none"><li>· Feedback loop in switch-mode power supplies</li><li>· Home appliances</li><li>· High speed logic ground isolation</li></ul></div></div>												

### High Speed Coupler 10M bps

Product Name	6N137	EL0600/0601	EL0611	ELM600/M601	ELM611	ELW137	ELW2601	ELW2611	EL2630	EL2631	EL0630	EL0631
Picture												
Dimension(mm)	9.76*6.6*3.5	4.88*3.92*3.18		4.4*4.1*2		11.15*9*3.9			9.76*6.6*3.5		4.88*3.92*3.18	
CMR	1000	5000 10000		5000 20000		5000 10000			5000 10000		5000 10000	
Vcc (V)	7											
Io (mA)	50											
Applications	<div><div></div><div><ul style="list-style-type: none"><li>· Ground loop elimination</li><li>· LSTTL to TTL, LSTTL or 5 volt CMOS</li><li>· Line receiver, data transmission</li><li>· Data multiplexing</li></ul></div><div><ul style="list-style-type: none"><li>· Switching mode power supply</li><li>· Pulse transformer replacement</li><li>· Computer peripheral interface</li></ul></div></div>											

### High Speed Coupler 5M bps

Product Name	EL2200	EL2201	EL2202
Picture			
Dimension(mm)	9.76*6.6*3.5		
CMR	1000		
Vcc (V)	20		
Io (mA)	25		
Applications	<ul style="list-style-type: none"> <li>Ground Loop Elimination</li> <li>LSTTL to LSTTL or CMOS</li> <li>Line Receiver, Data Transmission</li> <li>Isolated Bus Driver</li> <li>Pulse Transformer Replacement</li> <li>Microprocessor System Interface</li> <li>Computer Peripheral Interface</li> <li>High Speed Logic Ground Isolation</li> </ul>		

Maximizing lifecycles with maximum respect for the cycle of life.



Your source of information : enter [www.everlightamericas.com](http://www.everlightamericas.com) for all advanced EVERLIGHT optoelectronic products and updated specifications. Structure and material depend on customer request.

# Infrared Receiver Modules. READY FOR YOUR ORDERS.

Maximizing lifecycles with  
maximum respect  
for the cycle of life.



Power pack: assembled in one infrared bandpass package, EVERLIGHT's Infrared Receiver Modules couple the performance of a PIN diode receiver with the power of a preamplifier. The demodulated output signal can be directly decoded by a single microprocessor. The EVERLIGHT IRM product series fully support all major transmission codes and frequencies. That's why IRM devices are frequently used in top-selling audio-video equipments comfortably operated by comprehensive remote controls.





Your source of information : enter [www.everlightamericas.com](http://www.everlightamericas.com) for all advanced EVERLIGHT optoelectronic products and updated specifications.  
Structure and material depend on customer request.

## Infrared Receiver Modules

### IRM- M3 series

Product Name	EAIRMA	EAIRMB	EAIRMC	EAIRMG	EAIRMI	EAIRMJ	EAIRMM	EAIRMK	EAIRML
Picture									
Dimension(mm)	8.25*6.0*5.6		6.27*4.36*3.1	5.1*4.6*1.45	5.0*4.0*4.0	6.6*3.0*3.2		5.*4.0*2.0	5.3*3.8*2.65
Code Application	Matsushita   NEC   JVC   RC5   RC6   Toshiba   Sharp   Zenith								
Carrier Freq	36 KHz   38 KHz   56 KHz								
Supply Voltage (V)	3~5								
Current Consumption (mA)	0.4								

### IRM- M series

Product Name	EAIRMA	EAIRMB	EAIRMI	EAIRMM	EAIRMJ	EAIRML
Picture						
Dimension(mm)	8.25*6.0*5.6		5.0*4.0*4.0	6.6*3.0*3.2		5.3*3.8*2.65
Code Application	Mitsubishi    RCMM    RCA    XMP    R-step    RCS_80					
Carrier Freq	36 KHz    38 KHz					
Supply Voltage (V)	3~5					
Current Consumption (mA)	0.4					

### Wide Band

Product Name	EAIRMA	EAIRMI
Picture		
Dimension(mm)	8.25*6.0*5.6	5.0*4.0*4.0
Carrier Freq	30~ 56KHz	20~60KHz
Supply Voltage (V)	2.5~5	
Current Consumption (mA)	1.0mA	0.6mA

### IRM- C2 series

Product Name	EAIRMA
Picture	
Dimension(mm)	8.25*6.0*5.6
Code Application	NEC RC5 RC6 SONY 12 bit SONY 15bit SONY 20bit Matsushita Zenith JVC
Carrier Freq	38 KHz
Supply Voltage (V)	2.7~5.5
Current Consumption (mA)	0.65

### IRM- C series

Product Name	EAIRMA	EAIRMG
Picture		
Dimension(mm)	8.25*6.0*5.6	5.1*4.6*1.45
Code Application	NEC Panasonic RC5 RC6 SONY 12bit SONY 15bit	
Carrier Freq	38K Hz 40K Hz	
Supply Voltage (V)	2.5~5.5	
Current Consumption (mA)	1	

## Infrared Components

### ITR

	Transmissive Type			Reflective Type	
Product Name	EAITRA	EAITR	EAITR	EAITRA	EAITR
Product picture					
Dimension(mm)	3.1*2.75*2.0	2.5*1.6*1.8	15*6.7*14.9	3.4*2.7*1.5	4*3*2
VF_Type (V)	1.2	1.5	1.18	1.2	1.2
VF_Max (V)	1.4	1.4	1.4	1.4	1.4
VCE(SAT)_Max (V)	0.4	0.4	0.4	0.4	100
IC(ON)_Min (mA)	0.15	0.5	0.25	0.3	0.06
Gap Distance (mm)	1.1	1.2	5	NA	NA

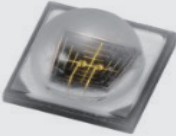
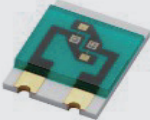

# Infrared LED

## 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 individuality – so does the impressive portfolio of EVERLIGHT infrared LED. It offers a wide choice of package designs for infrared emitting diodes, photodiodes, phototransistors or Photo ICs. Serving all common standard packages like SMD, DIP, PLCC or plastic housings, EVERLIGHT provides you with excellent solutions that fit a wide range of requirements – for a broad variety of applications. The perfect source of inspiration for engineering creativity!

### Infrared Components


#### IR

Product Name	EAISV2406	EAIST3535	EAIST6048	EAIST3227
Product picture				
Package and Description	SMD package, Infrared LED Side-look application	High Power Infrared LED	SMD LED with dual wavelength	SMD LED with dual wavelength
Dimension(mm)	2.4*1.34*0.6	3.5*3.5*2.36	6.0*4.8*1.1	3.2*2.7*1.1
Peak Wavelength(nm)	940nm	940nm	660nm/905nm, 660nm/940nm	660nm/905nm, 660nm/940nm
View Angle	160(X)/120(Y)	90	140	120
Output Power (mW/sr) @IF=20mA	1.5	170 (@350mA)	0.8	0.8

#### IR

Product Name	EAIST2219	EAISV1608	EAISV3012	EAISV3012
Product picture				
Package and Description	SMD package, Infrared LED, high power output and narrow view angle	Slim SMD package, Infrared LED Side-look application	SMD package, Infrared LED Side-look application	SMD package, Infrared LED Side-look application
Dimension(mm)	2.2*1.95*0.9	1.6*1.52*0.8	3.0*2.65*1.2	3.0*2.41*1.2
Peak Wavelength(nm)	850nm	850nm	940nm	940nm
View Angle	40	100(X)/40(Y)	30	50
Output Power (mW/sr) @IF=20mA	40(@70mA)	5	5	8.5

#### PD/PT



Product Name	EAPSV3012	EAPSV3216	EAPDSV2406	EAPDST6048	EAPDST3227
Product picture					
Package and Description	SMD package, Infrared LED Side-look application	SMD package, Infrared LED Side-look application	SMD package, Infrared LED Side-look application	SMD package, Photodiode	SMD package, Photodiode
Dimension(mm)	3.0*2.65*1.2	3.2*2.4*1.6	2.4*1.34*0.6	6.0*4.8*1.1	3.2*2.7*1.1
Peak Wavelength(nm)	940nm	940nm	875nm	940nm	940nm
Output Current	4mA	3mA	0.7μA	33.5μA	6.5μA

## Optical Sensors


# AN EYE FOR BRILLIANCE – UNDER ALL CONDITIONS

EVERLIGHT's family of Ambient Light Sensors provide 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 perception by actively supporting the automatic backlighting adjustment – e.g. in flat screens, ensuring top video quality under all lighting conditions. Inspired by the human eye's unique ability 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 photodetector components are TV sets and monitors, digital cameras, gaming consoles, commercial signboards and intelligent street lights that start operation exactly when it's needed – not a second before.

### Ambient Light Sensor + Proximity Sensor + IR LED

Product Name	EAAPMST3923D12	Product Name	EAAPMST3923D16
	The EAAPMST3923D12 integrates an ambient light sensor (ALS), a proximity sensor (PS), an infrared emitting diode (IRED) driver and an SMBus compatible I2C interface into one chip. The ALS and PS work independently, and communication to the device is accomplished through the fast I2C interface (up to 750 kHz) for easy connection to a microcontroller or embedded controller. A flexible interrupt scheme is provided for minimal microcontroller utilization.		The EAAPMST3923D16 is a digital output ambient light and proximity sensor with I2C interface and interrupt. It has a flexible and wide operating range for the ambient light sensor with a maximum resolution of 0.08mLux/count and a maximum detectable illumination of 42949Lux. The PS function has adjustable number of IR pulses from 1 to 256 and flexible IR LED driving current from 12.5mA to 125mA, to meet different application requirements. Furthermore it is equipped with a filter to reduce unwanted IR signals and noise comes from the environment.
Dimension(mm)	3.94 *2.36 *1.35	Dimension(mm)	3.94 *2.36 *1.35
Output	Digital	Output	Digital
Interface	I2C	Interface	I2C
Resolution	12bit ALS / 8bit Proximity	Resolution	16bit ALS / Proximity
Supply Voltage	2.3~3.6	Supply Voltage	1.7~3.5V
Supply Current	110uA	Supply Current	90uA
Shutdown Current	0.1uA	Shutdown Current	0.1uA
Interrupter Function	YES	Interrupter Function	YES
Ambient light sensing	YES	Ambient light sensing	YES
Detection Range	0.012~800lx	Detection Range	0.0001lx~49000lx (Range selectable)
Proximity sensing function	YES	Proximity sensing function	YES
IR LED driving current operation range	100 / 200mA	IR LED driving current operation range	12.5 ~ 125mA
Application	Smartphone/ Tablet PC/ Backlight Dimming/ Touch Screen Disable	Application	Smartphone/ Tablet PC/ Backlight Dimming/ Touch Screen Disable

### Color Sensor

Product Name	EACLS2020
	EACLS2020 is a digital RGB color sensor that can sense red, green, blue (RGB), and clear light. It can communicate via I2C interface. Thanks to RGB color sensing, the brightness and color temperature of backlight can be adjusted based on ambient light source that makes the panel look more comfortable for human eyes. The CS features are ideal for reducing power consumption and adjusting brightness of display equipments like LCD, PDP, LED, virtual keyboard and portable projector, etc. The operation voltage ranges from 1.7 to 3.0 volt.
Dimension(mm)	2.0*2.0*0.6
Output	Digital
Interface	I2C
Resolution	16
Supply Voltage	1.7~3.0V
Supply Current	0.4mA
Shutdown Current	1uA
Interrupter Function	YES
Ambient light sensing	YES
Detection Range	0.01 lux ~ >100,000 lux
Proximity sensing function	N/A
IR LED driving current operation range	N/A
Application	Smartphone/ Tablet PC/ Backlight Dimming

### Ambient Light Sensor

Product Name	EAALSDIC2012A2
	The EAALSDIC2012A2 is consisting of a photodiode and a current amplification IC. EVERLIGHT ALS series product is a good effective solution to the power saving of display backlighting of mobile appliances, such as the mobile phones, NB and PDAs. Due to the high rejection ratio of infrared radiation, the spectral response of the ambient light sensor is close to that of human eyes.
Dimension(mm)	1.6*1.6*0.55
Output	Analog
Interface	Current output
Resolution	N/A
Supply Voltage	1.8 ~5.5V
Supply Current	480uA
Shutdown Current	100nA
Interrupter Function	N/A
Ambient light sensing	YES
Detection Range	0~10000Lux
Proximity sensing function	N/A
IR LED driving current operation range	N/A
Application	Smartphone/ Tablet PC/ Backlight Dimming

Maximizing lifecycles with maximum respect for the cycle of life.



Your source of information : enter [www.everlightamericas.com](http://www.everlightamericas.com) for all advanced EVERLIGHT optoelectronic products and updated specifications. Structure and material depend on customer request.