

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







BCS2015G1 is the photodiode which uses an amorphous silicone semiconductor on the glass substrate. It is the most suitable for Brightness Adjustment, Control of the Lighting systems. BCS2015G1 is for surface mounthing.

Features

- Highly receptive to visible light but not receptive to infrared light (close to Human eye visibility).
- Accurate illumination measurement can be taken without the use of an infrared filter.

(Phototransistors and photodiodes that use crystal- silicon semiconductors typically require this filtering.)

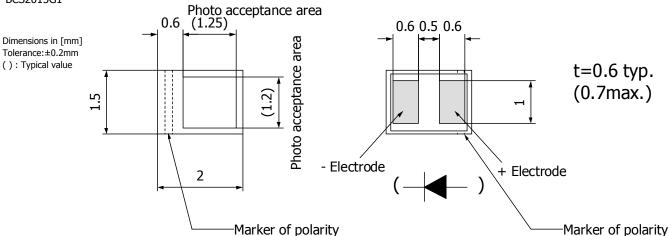
- Surface mounting can be used in lead- free reflow soldering.
- Lead- free, Cadmium-free

Shapes and dimension

Glass Substrate BCS2015G1

Application

- Brightness control for LCD, EL and CRT
- Brightness control for Keypads (e. g. Mobile Phones)
- Positioning scanline for Rear Projecton TV
- Exposure adjust for Compact Camera
- Sub exposure adjust for Digital Camera



Electrical Characterisic				Temperature= 25deg.C			
Item			Value				
			Units	Min.	Тур.	Max.	
Output current	100Lux*1	VR=0V (Short Circuit Current)	μΑ	0.07	0.10	0.13	
Output current	100Lux*1	VR=5V	μA	0.08	0.12	0.16	
Dark current	VR=0.05V		рA			10	

*Initial value

	IIIIdai	value		
Absolute Maximum Ratings	Temperature= 25deg.C			
Item	Value			
	Units			
Reverse biass voltage: VR	V	10		
Non-reverse biass current	mA	2		

 Optical Characteristic
 Temperature= 25deg.C

 Item
 Value

 Units
 Units

 Spectral sensivty area
 nm
 350 to 750

 Peak of sensivity
 nm
 580±20

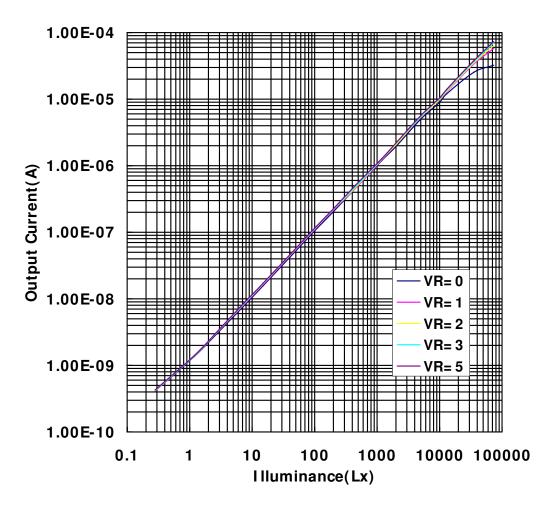
Others

Item	Value		
	Units		
Operating temperature	deg. C	-20 to 85	
Keep and transfer temperature	deg. C	-40 to 85	
Dimensions	mm	2.0×1.5×0.6t	
Weight	g	0.004	

*1 White Fluor Light (color temperature=4200K)

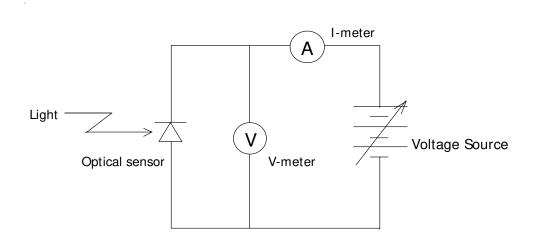


Output characteristic(typical):BCS2015G1



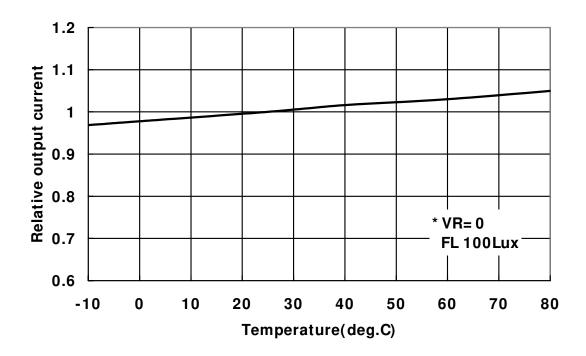
* VR:Reverse biass voltage

Measuring circuit diagram

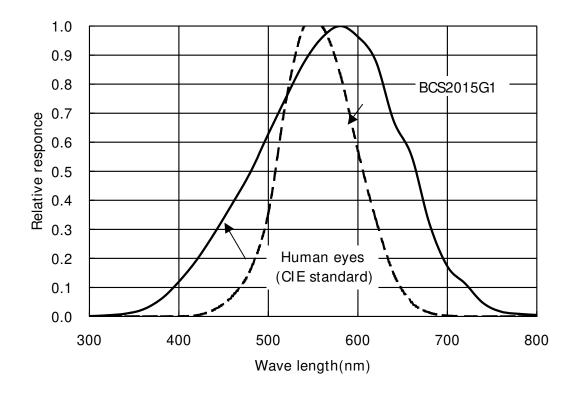




Temperature stability of output current:BCS2015G1 (typical)



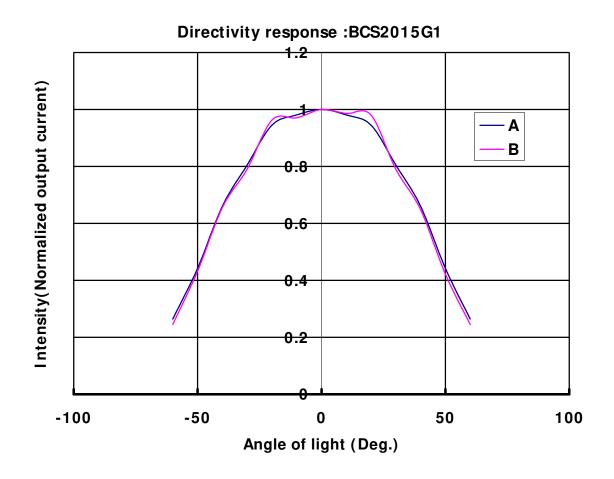
Spectral response:BCS2015G1 (typical)

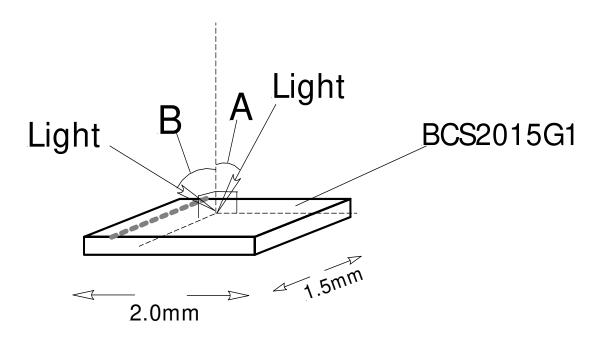




Light directivity response: BCS2015G1

Light source/ White fluor lamp Distance of light source/ 60cm



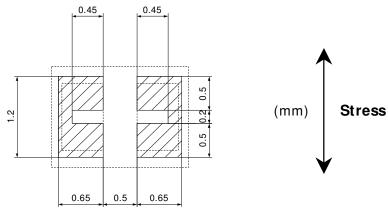




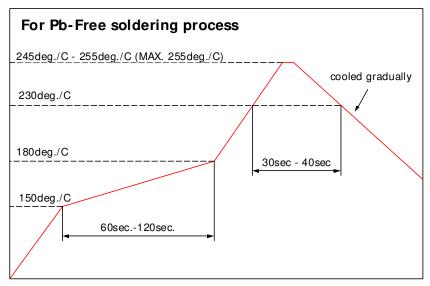
Recommended land pattern

Recommended land pattern is shown in Fig. Please arrange a land in the direction as shown in Fig. to the direction of curvature as the result of heat stress by reflow

and/or physical stress.



Recommanded reflow heat condition



* Pb Flee Solder is SnAgCu.

