



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!



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GM1BC55250AC

Chip LED

High-Luminosity Blue Chip LED

■ Features

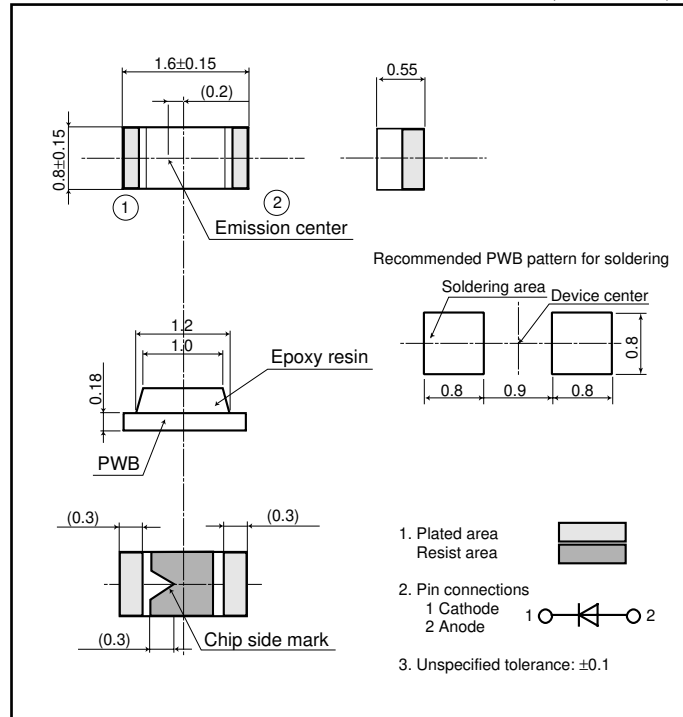
- (1) High-luminosity Blue chip LED
- (2) Wide viewing angle (2θ 1/2): 120°
- (3) Surface-mount, leadless chip LED device
- (4) Outline dimensions: $1.6 \times 0.8 \times 0.55$ t mm
- (5) Taped product (5 000 pcs/reel)

■ Applications

- (1) LCD backlight for cellular phone
- (2) LCD backlight for various portable equipment
- (3) Backlight for membrane switch

■ Outline Dimensions

(Unit : mm)



■ Absolute Maximum Ratings

($T_a=25^\circ\text{C}$)

Model No.	Emitting color	Material	Power dissipation P (mW)	Forward current I_F (mA)	Peak forward current I_{FM}^{*1} (mA)	Derating factor (mA/ $^\circ\text{C}$)		Reverse voltage V_R (V)	Operating temperature T_{opr} ($^\circ\text{C}$)	Storage temperature T_{stg} ($^\circ\text{C}$)	Soldering temperature T_{sol}^{*2} ($^\circ\text{C}$)
						DC	Pulse				
GM1BC55250AC	Blue	GaNN	78	20	40	0.27	0.53	5	-20 to +80	-40 to +100	250

*1 Duty ratio=1/10, Pulse width=0.1ms

*2 For 3s or less at the temperature of hand soldering.

■ Electro-optical Characteristics

($I_F=10\text{mA}, T_a=25^\circ\text{C}$)

Lens type	Model No.	Forward voltage V_F (V)		Peak emission wavelength λ_p (nm) TYP	Dominant wavelength λ_d (nm) TYP	Luminous intensity I_v (mcd) TYP	Spectrum radiation bandwidth $\Delta\lambda$ (nm) TYP	Reverse current	
		TYP	MAX					I_R (μA) MAX	V_R (V)
Colorless transparency	GM1BC55250AC	3.2	3.9	470	472	35	26	100	4

(Notice)

•In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

•Specifications are subject to change without notice for improvement.

(Internet)

•Data for Sharp's optoelectronic is provided on internet. (Address <http://sharp-world.com/ecg/>)