



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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## GM5WA06260A

## Chip LED

### Built-in 3-chip, Super-luminosity Chip LED

#### Features

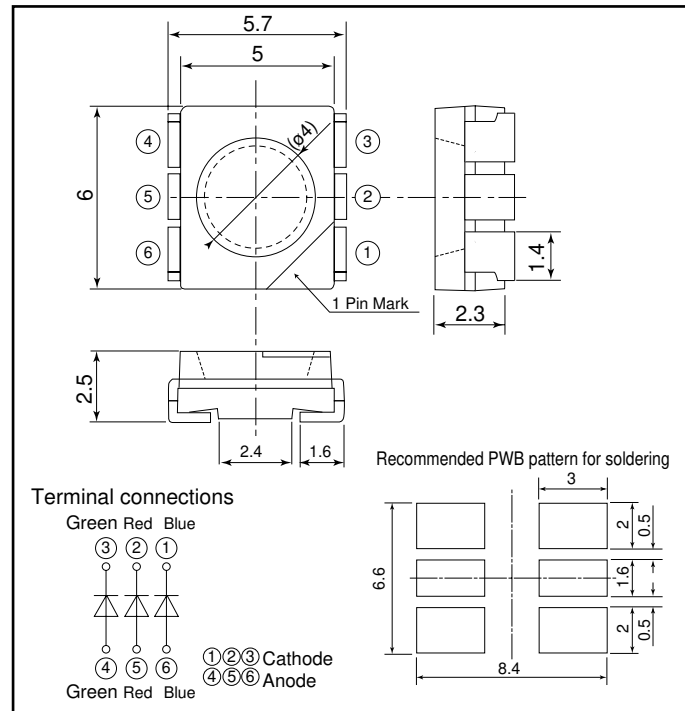
- (1) Super-luminosity chip LED
- (2) Built-in Blue, Green, Red LED chip
- (3) Using a package with high heat dissipation properties, it can be driven with a large current ( $I_F=40$  mA)
- (4) Reduction of power consumption and adjusting each color is possible thanks to serial connection by 6 terminal connection (Individual driving by each terminal) in case of using several number of LED
- (5) Wide viewing angle ( $2\theta$  1/2):  $120^\circ$
- (6) Surface-mount, leadless chip LED device
- (7) Outline dimensions:  $6.0 \times 5.0 \times 2.5$  mm
- (8) Lead frame package with individual 6 pin
- (9) Taped product (800 pcs/reel)

#### Applications

- (1) Amusement equipment
- (2) Information boards

#### Outline Dimensions

(Unit:mm)



#### Absolute Maximum Ratings

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

Model No.	Radiation color	Radiation material	Power dissipation $P^*1$ (mW)	Forward current $I_F$ (mA)	Peak forward current $I_{FM}^{*2}$ (mA)	Derating factor (mA/ $^\circ\text{C}$ )		Reverse voltage $V_R$ (V)	Operating temperature $T_{opr}$ ( $^\circ\text{C}$ )	Storage temperature $T_{sig}$ ( $^\circ\text{C}$ )	Soldering temperature $T_{sol}^{*3}$ ( $^\circ\text{C}$ )
						DC	Pulse				
GM5WA06260A	Blue	InGaN	400	50	80	0.83	1.33	5	-30 to +85	-40 to +85	295
	Green	InGaN		50	80	0.83	1.33	5	-30 to +85	-40 to +85	295
	Red	AlGaInP		40	80	0.83	1.33	5	-30 to +85	-40 to +85	295

\*1 Within 400 mW at all chips are lightened.

\*2 Duty ratio=1/10, Pulse width=0.1ms.

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

#### Electro-optical Characteristics

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

Lens type	Model No.	Radiation color	Forward voltage $V_F$ (V)			Dominant wavelength		Luminous intensity (mixed color)		Reverse current	
			TYP	MAX	$I_F$ (mA)	$\lambda_d$ (nm) TYP	$I_F$ (mA)	$I_v$ (mcd) TYP	$I_F$ (mA)	$I_R$ ( $\mu\text{A}$ ) MAX	$V_R$ (V)
Colorless transparency	GM5WA06260A	Blue	4.6	5.2	35	469	40	1 725	20	100	4
		Green	4.4	5.2	35	520	40		40	100	4
		Red	2.3	2.9	35	617	40		40	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/>)

As of July 2002