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.

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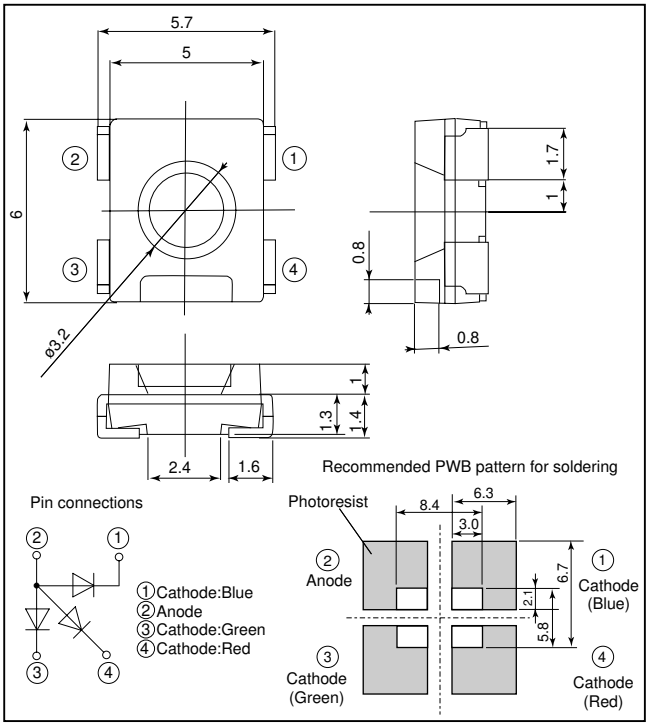
GM5WA02200A

(Under development)

6.0×5.0mm, 2.4mm Thickness, RGB 3-Color Emission Super-luminosity Chip LED

■ Outline Dimensions

(Unit : mm)



■ Absolute Maximum Ratings

(T_a=25˚C)

Model No.	Emitting color	Material	Power dissipation P^{*1} (mW)	Forward current I_F (mA)	Peak forward current I_{FM}^{*2} (mA)	Derating factor (mA/˚C) DC	Derating factor (mA/˚C) Pulse	Reverse voltage V_R (V)	Operating temperature T_{opr} (˚C)	Storage temperature T_{stg} (˚C)	Soldering temperature T_{sol}^{*3} (˚C)
GM5WA02200A	Blue	InGaN on SiC	400	50	80	0.59	0.94	5	-55 to +110	-55 to +110	295
	Green	InGaN on SiC		50	80	0.59	0.94	5	-55 to +110	-55 to +110	295
	Red	AlGaInP on GaAs		50	80	0.59	0.94	5	-55 to +110	-55 to +110	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

(I_F=40 mA,T_a=25˚C)

Lens type	Model No.	Radiation color	Forward voltage V_F(V) TYP	Peak emission wavelength λ_p(nm) TYP	Dominant wavelength λ_d(nm) TYP	Luminous intensity Iv(mcd) TYP	Spectrum radiation bandwidth $\Delta\lambda$(nm) TYP	Reverse current I_R(μA) MAX	Reverse current V_R (V)
Colorless transparency	GM5WA02200A	Blue	4.5	(468)	(470)	(150)	(26)	100	4
		Green	4.5	(518)	(525)	(500)	(35)	100	4
		Red	2.0	(647)	(635)	(300)	(18)	100	4

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— Telecommunication equipment [terminal]
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— Industrial control
— Audio visual equipment
— Consumer electronics

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— Traffic signals
— Gas leakage sensor breakers
— Alarm equipment
— Various safety devices, etc.

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