

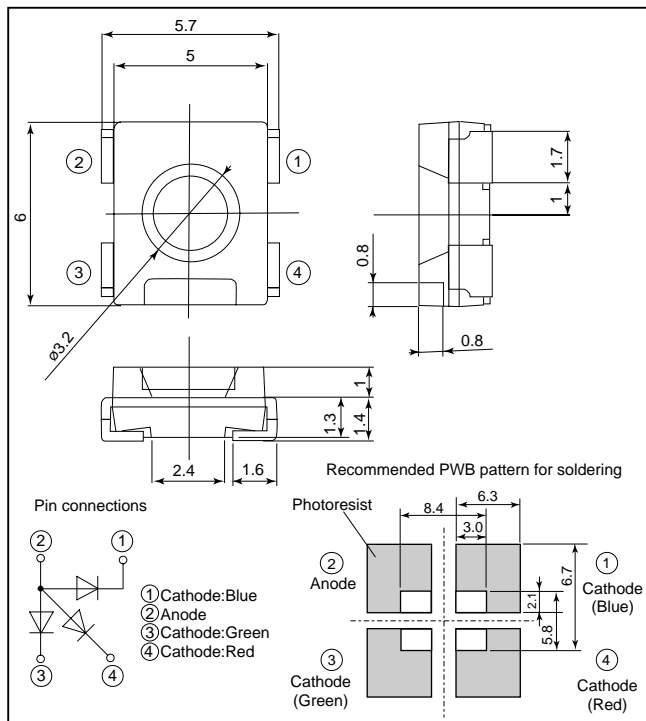
GM5WA02200A

(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)		Reverse voltage V _R (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)	Soldering temperature T _{sol} ^{*3} (°C)
						DC	Pulse				
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 I _v (mcd) TYP	Spectrum radiation bandwidth Δλ(nm) TYP	Reverse current	
								I _R (μA) MAX	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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