



GM1WA80350A

Chip LED

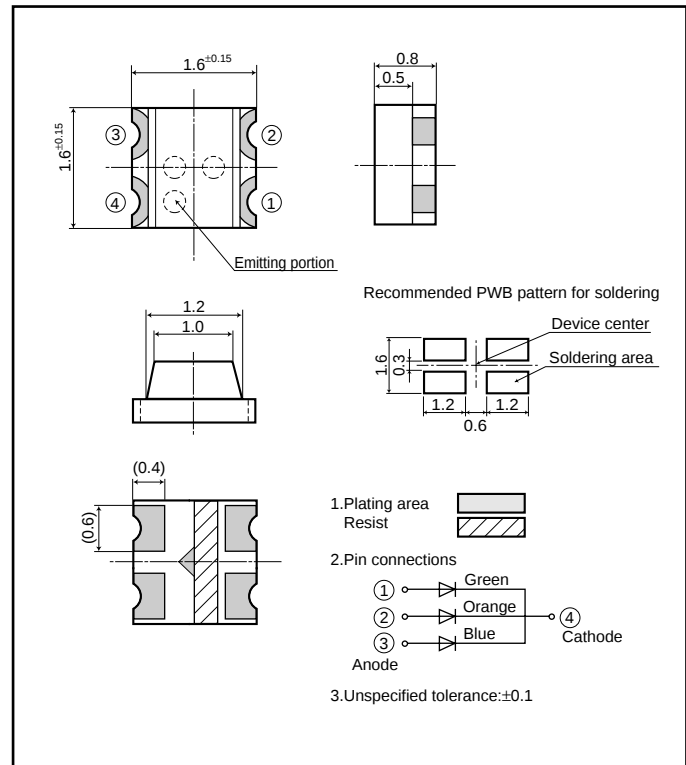
Built-in 3-chip Compact Size Chip LED

Features

- (1) Surface mount type leadless chip LED
- (2) Compact Size : 1.6 x 1.6 x 0.8 t mm
- (3) Built-in Blue,Green,Orange LED chip
- (4) Blue and Green : front and back electrode type
- (5) Taped product (4 000 pcs/reel)

Outline Dimensions

(Unit:mm)



Applications

- (1) Amusement equipment
- (2) LCD backlight
- (3) Indicator

Absolute Maximum Ratings

(T_a=25°C)

Model No.	Radiation color	Radiation material	Power dissipation P (mW)	Forward current I _F ^{*1} (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 _{sig} (°C)	Soldering temperature T _{sol} ^{*3} (°C)
						DC	Pulse				
GM1WA80350A	Blue	InGaN	78	20	40	0.27	0.53	5.0	-20 to +80	-40 to +100	290
	Green	InGaN	78	20	40	0.27	0.53	5.0	-20 to +80	-40 to +100	290
	Orange	AlGaInP	78	20	50	0.40	0.67	5.0	-20 to +80	-40 to +100	290

^{*1} In case 2 or 3 chips are lightened, Blue :10mA, Green:10mA, Orange:15mA

^{*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=20 mA(Blue,Green):I_F=10 mA), T_a=25°C)

Lens type	Model No.	Radiation color	Forward voltage V _F (V)	Peak emission wavelength λ _p (nm)	Dominant wavelength λ _d (nm)	Luminous intensity I _v (mcd)	Spectrum radiation bandwidth Δλ(nm)	Reverse current	
			TYP	TYP	TYP	TYP	TYP	I _R (μA) MAX	V _R (V)
Colorless transparency	GM1WA80350A	Blue	3.2	470	472	30	26	100	4
		Green	3.2	528	530	92	36	100	4
		Orange	2.1	627	618	100	15	100	4

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(Internet)

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

As of August 2001

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