



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!



## Contact us

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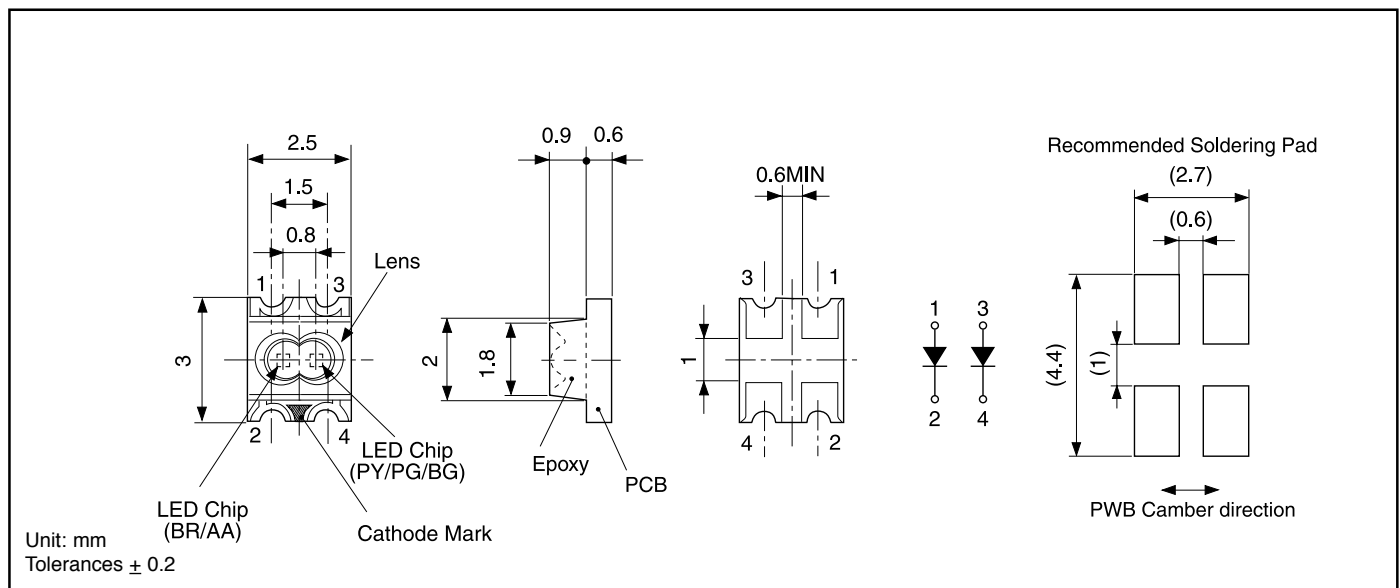
### Features

- Bicolor package with 3225 (1210) footprint
- Inner lens design provides focused light beam
- Excellent for indicator backlighting and light pipe applications

### Applications

- Mobile devices
- Computer / Telecommunications
- Industrial / Medical Instrumentation
- Audio visual equipment

### Outline Dimensions



### Electro-Optical Characteristics

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

Part No.	Material	Emitted Color	Lens Color	Luminous Intensity $I_v$			Wavelength				Forward Voltage $V_f$			Reverse Current $I_R$		Viewing Angle (2 $\theta$ 1/2)
				MIN.	TYP.	$I_f$	Peak $\lambda_p$ TYP.	Dominant $\lambda_d$ TYP.	Spectral Line Half Width $\Delta\lambda$ TYP.	$I_f$	TYP.	MAX.	$I_f$	MAX.	$V_R$	
BRPY1204W	GaAlAs	Red (BR)	Water Clear	6.0	33.6	20	660	647	30	20	1.7	2.0	20	100	4	100°
	GaP	Yellow-Green (PY)		6.0	24	20	570	572	30	20	2.1	2.5	20	100	4	80°
BRPG1204W	GaAlAs	Red (BR)		6.0	33.6	20	660	647	30	20	1.7	2.0	20	100	4	100°
	GaP	Green (PG)		3.0	12	20	560	567	30	20	2.1	2.5	20	100	4	80°
BRBG1204W	GaAlAs	Red (BR)		6.0	33.6	20	660	647	30	20	2.2	2.0	20	100	4	100°
	GaP	Pure Green (BG)		0.9	4.8	20	555	558	30	20	2.1	2.5	20	100	4	80°
AAPY1204W	GaAsP	Orange (AA)		5.0	9	20	605	606	30	20	2.2	2.5	20	100	4	80°
	GaP	Yellow-Green (PY)		6.0	12	20	570	572	30	20	2.1	2.5	20	100	4	80°
Units				mcd	mA		nm		mA	V	mA	$\mu\text{A}$	V	Deg.		

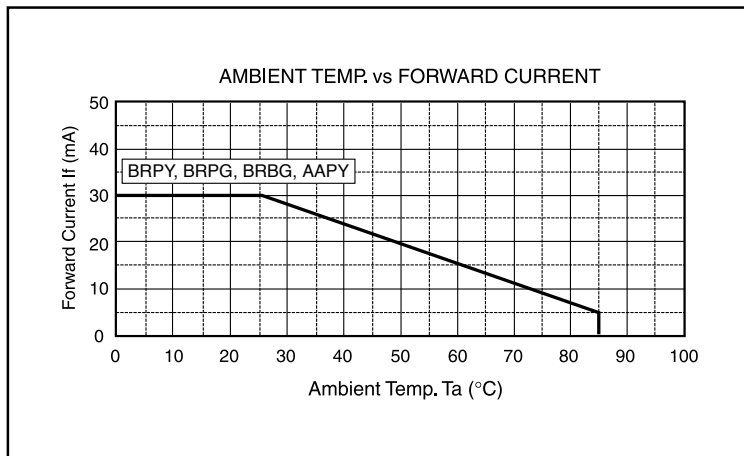
## Absolute Maximum Ratings

(Ta=25°C)

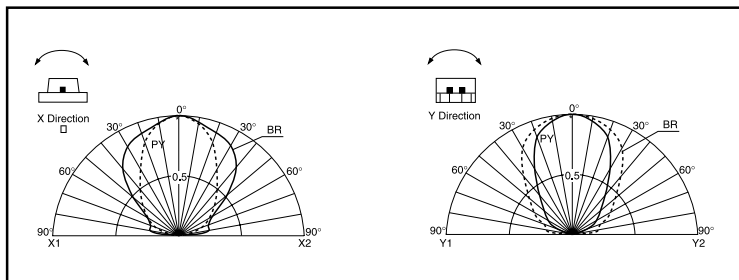
Item	Symbol	Red	Yellow-Green	Red	Green	Red	Pure Green	Orange	Yellow-Green	Units
		BRPY		BRPG		BRBG		AAPY		
Power Dissipation	Pd	75		75		75		75		mW
Forward Current	I <sub>F</sub>	30		30		30		30		mA
Peak Forward Current	I <sub>FM</sub>	70		70		70		70		mA
Reverse Voltage	V <sub>R</sub>	4		4		4		4		V
Operating Temperature	Topr	-30 to +85								°C
Storage Temperature	Tstg	-40 to +100								°C
Derating*	ΔI <sub>F</sub>	0.42 (DC) 0.93 (Pulse)								mA/°C

\* Ta=25°C, I<sub>FM</sub> applies for the pulse width ≤ 1msec. and duty cycle ≤ 1/20.

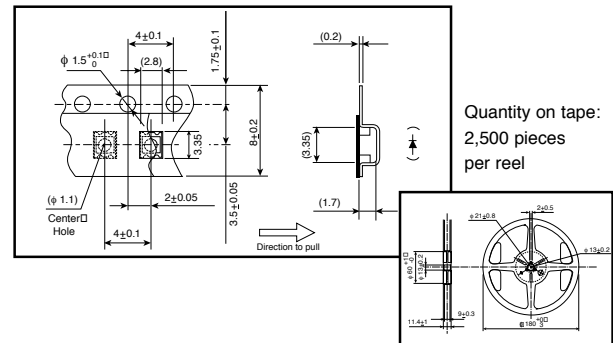
## Operation Current Derating Chart (DC)



## Spatial Distribution



## Taping Specifications

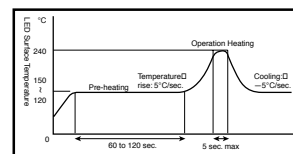


## Precautions

Please follow these handling precautions to prevent damage to the chip and ensure its reliability.

### 1. Soldering conditions:

- **Soldering iron:** Temperature at tip of iron: 280°C max. (30W max.)  
Soldering time: 3 sec. max.
- **Dip soldering:** Preheating: 120 ~ 150°C max. (resin surface temp.)  
60 ~ 120 sec. max. Bath temperature: 260°C max. Dipping Time: 5 sec. max.
- **Reflow Soldering:**



### 2. Cleaning:

- If cleaning is required, use the following solutions for less than 1 minute, at less than 40°C.
- Appropriate chemicals: Ethyl alcohol and isopropyl alcohol.
- Effect of ultrasonic cleaning on the LED resin body differs depending on such factors as the oscillator output, size of PCB and LED mounting method. The use of ultrasonic cleaning should be enforced at proper output after confirming there is no problem.

Product specifications subject to change without notice. PG1204W-0301

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