

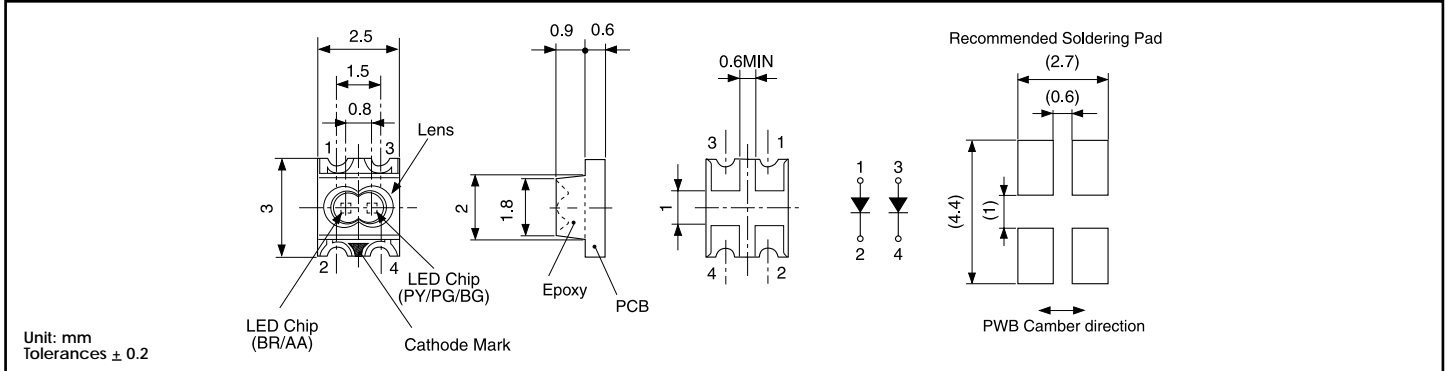
BI-COLOR LED



1204W Standard Type with Inner Lens

S T A N D A R D C O L O R

Outline Dimensions



Absolute Maximum Ratings

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

Item	Symbol	Red	Yellow Green	Red	Green	Red	Pure Green	Orange	Yellow Green	Units	
		BRPY		BRPG		BRBG		AAPY			
Power Dissipation	P_d	75		75		75		75		mW	
Forward Current	I_f	30		30		30		30		mA	
Peak Forward Current	I_{FM}	70		70		70		70		mA	
Reverse Voltage	V_R	4		4		4		4		V	
Operating Temperature	T_{opr}	-30 to +85									$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +100									$^\circ\text{C}$
Derating*	ΔI_f	0.42 (DC) 0.93 (Pulse)									$\text{mA}/^\circ\text{C}$

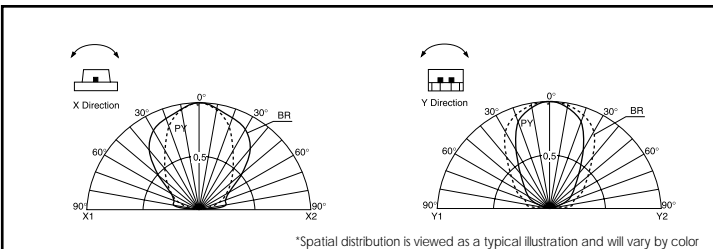
* $T_a=25^\circ\text{C}$, I_{FM} applies for the pulse width $\leq 1\text{msec.}$ and duty cycle $\leq 1/20$.

Electro-Optical Characteristics

*The viewing angle is an average and will vary by color ($T_a=25^\circ\text{C}$)

Part No.	Material	Emitted Color	Lens Color	Luminous Intensity I_v			Wavelength			Forward Voltage v_f			Reverse Current I_R		Viewing Angle ($2\theta \pm 1/2$)	
				MIN.	TYP.	I_f	Peak λ_p TYP.	Dominant λ_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)		6.0	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	1.7	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	μA	V	Deg.	

Spatial Distribution



Operation Current Derating Chart (DC)

