

Circuit Board Indicator, 5mm tri-color LED CBI

BL-LA1T5-A0807

■ FEATURES

- 5mm tri-color LED CBI, single level
- 5mm RGB tri-color LED in single-level CBI package for precise panel alignment
- Three-color light source (Red/Green/Blue) enabling full-color mixing
- Pre-formed leads for easy and consistent PCB mounting
- Black housing enhances contrast and improves on-panel visibility
- Long-life LED chips with stable and uniform color output
- UL 94V-0 rated PA66 housing material
- Halogen-free and RoHS compliant



■ APPLICATIONS

- Multi-status indicators with color-coded messaging
- Control panels, network devices, and instrumentation displays
- Compact RGB signal modules and small display elements
- User interface backlighting and mode indicators
- Consumer, industrial, and appliance color indicators

■ ATTENTION

This device is sensitive to electrostatic discharge.

Use appropriate ESD handling procedures during assembly.

■ Absolute maximum ratings (Ta=25°C)

Parameter	R	E	Y	G	B	W	Unit
Forward Current I_F	25	25	25	30	30	30	mA
Power Dissipation P_d	60	60	60	65	120	120	mW
Reverse Voltage V_R	5	5	5	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	150	150	150	150	100	100	mA
Operation Temperature T_{OPR}	-40 to +80						°C
Storage Temperature T_{STG}	-40 to +85						°C
Lead Soldering Temperature TSOL	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)						°C

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■ Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

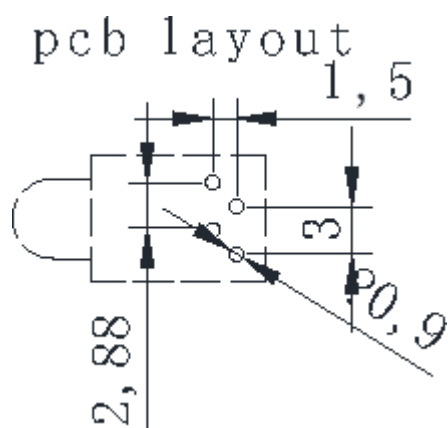
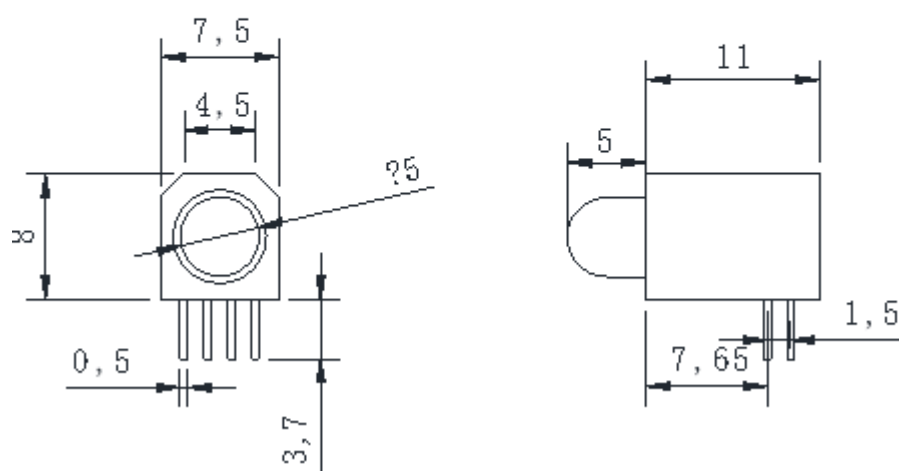
Part Number	Assembly LED		Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2θ1/2 (deg)
			Emitted Color	Material	λP (nm)		Typ	Max	Min.	Typ.	
BL-LA3D3-A1504RGY		Y	Yellow	GaAsP/GaP	585	C.D.	2.1	2.5	1.5	20	60
		R	Red	GaAsP/GaP	635	C.D.	2.1	2.5	10	70	60
		G	Green	GaP/GaP	570	C.D.	2.2	2.5	1.5	20	60
BL-LA3D3-A1504RGB		R	Red	GaAsP/GaP	635	C.D.	2.1	2.5	10	70	60
		G	Green	GaP/GaP	570	C.D.	2.2	2.5	1.5	20	60
		B	Blue	InGaN	465	C.D.	3.1	4.2	300	700	60
BL-LA3D3-A1504REY		R	Red	GaAsP/GaP	635	C.D.	2.1	2.5	10	70	60
		E	amber	AlGaAs	660	C.D.	1.85	2.2	30	110	60
		Y	Yellow	GaAsP/GaP	585	C.D.	2.1	2.5	1.5	20	60
BL-LA3D3-A1504RGE		G	Green	GaP/GaP	570	C.D.	2.2	2.5	1.5	20	60
		R	Red	GaAsP/GaP	635	C.D.	2.1	2.5	10	70	60
		E	amber	AlGaAs	660	C.D.	1.85	2.2	30	110	60
BL-LA3D3-A1504EGB		G	Green	GaP/GaP	570	C.D.	2.2	2.5	1.5	20	60
		E	amber	AlGaAs	660	C.D.	1.85	2.2	30	110	60
		B	Blue	InGaN	465	C.D.	3.1	4.2	300	700	60
BL-LA3D3-A1504YGB		G	Green	GaP/GaP	570	C.D.	2.2	2.5	1.5	20	60
		B	Blue	InGaN	465	C.D.	3.1	4.2	300	700	60
		Y	Yellow	GaAsP/GaP	585	C.D.	2.1	2.5	1.5	20	60
BL-LA3D3-A1504EGY		E	amber	AlGaAs	660	C.D.	1.85	2.2	30	110	60
		G	Green	GaP/GaP	570	C.D.	2.2	2.5	1.5	20	60
		Y	Yellow	GaAsP/GaP	585	C.D.	2.1	2.5	1.5	20	60

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■ **Package configuration & Internal circuit diagram**

BL-LA1T5-A0807 series



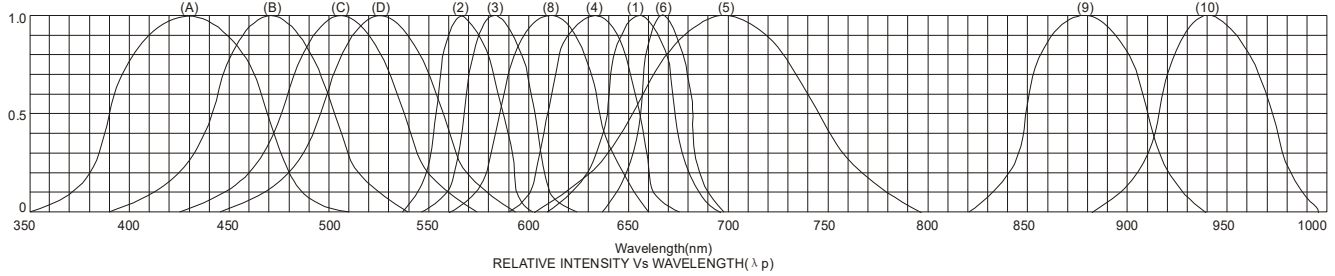
Notes:

1. All dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.

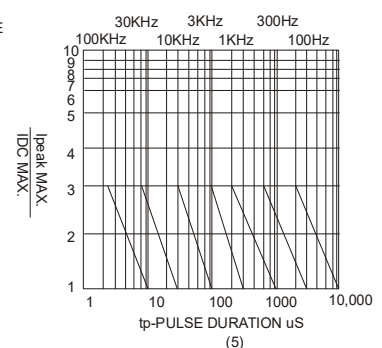
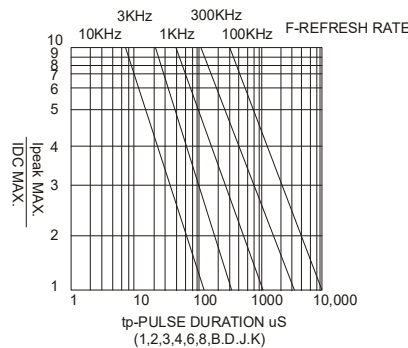
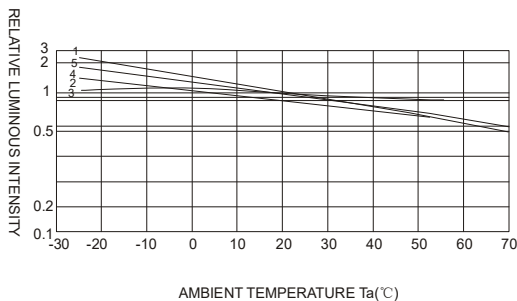
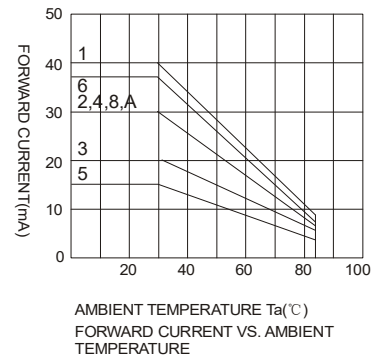
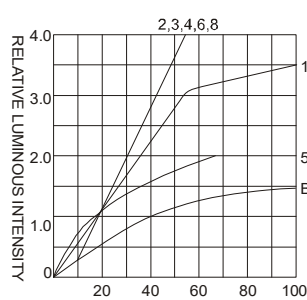
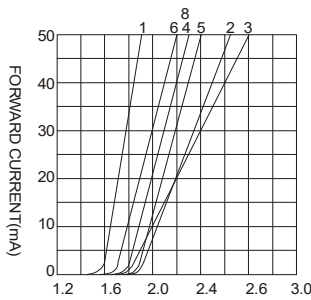
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■ Typical electrical-optical characteristics curves:



- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (9) - GaAlAs 880nm |
| (2) - GaP 570nm/Yellow Green | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow | (A) - GaN/SiC 430nm/Blue |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue |
| (5) - GaP 700nm/Bright Red | (C) - InGaN/SiC 505nm/Ultra Green |
| (6) - GaAlAs/GaAs 660nm/Super Red | (D) - InGaAl/SiC 525nm/Ultra Green |
| (8) - GaAsP/GaP 610nm/Super Red | |



NOTE: 25°C free air temperature unless otherwise specified

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■ **Packing and weighting**

