

Circuit Board Indicator, 1.8mm Bi-Level LED CBI

BL-LA2D2-A0802

■ FEATURES

- 1.8mm LED CBI, dual level
- Dual-level CBI design for stacked or multi-position indicator layouts
- Compact 1.8mm LED package suitable for dense panel assemblies
- Pre-formed leads ensure precise PCB alignment across both levels
- Black housing enhances contrast and improves visibility
- Long-life LED chip with stable optical performance
- UL 94V-0 rated PA66 housing
- Halogen-free and RoHS compliant



■ APPLICATIONS

- Miniature status indicators
- Multi-status or multi-function panel indicators
- Stacked indicator arrays for instruments and control equipment
- Compact display modules and signal towers
- Space-saving switch and keypad backlighting
- Portable or handheld device indicators

■ ATTENTION

This device is sensitive to electrostatic discharge.

Use appropriate ESD handling procedures during assembly.

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

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-LA2D2-A0802RG-RG	LED1	RG	Red	GaAsP/GaP	635	C. D.	2.1	2.5	10	70	60
			Green	GaP/GaP	570	C. D.	2.2	2.5	1.5	20	60
	LED2	RG	Red	GaAsP/GaP	635	C. D.	2.1	2.5	10	70	60
			Green	GaP/GaP	570	C. D.	2.2	2.5	1.5	20	60
BL-LA2D2-A0802RG-YG	LED1	RG	Red	GaAsP/GaP	635	C. D.	2.1	2.5	10	70	60
			Green	GaP/GaP	570	C. D.	2.2	2.5	1.5	20	60
	LED2	YG	Yellow	GaAsP/GaP	585	C. D.	2.1	2.5	1.5	20	60
			Green	GaP/GaP	570	C. D.	2.2	2.5	1.5	20	60
BL-LA2D2-A0802YG-YG	LED1	YG	Yellow	GaAsP/GaP	585	C. D.	2.1	2.5	1.5	20	60
			Green	GaP/GaP	570	C. D.	2.2	2.5	1.5	20	60
	LED2	YG	Yellow	GaAsP/GaP	585	C. D.	2.1	2.5	1.5	20	60
			Green	GaP/GaP	570	C. D.	2.2	2.5	1.5	20	60

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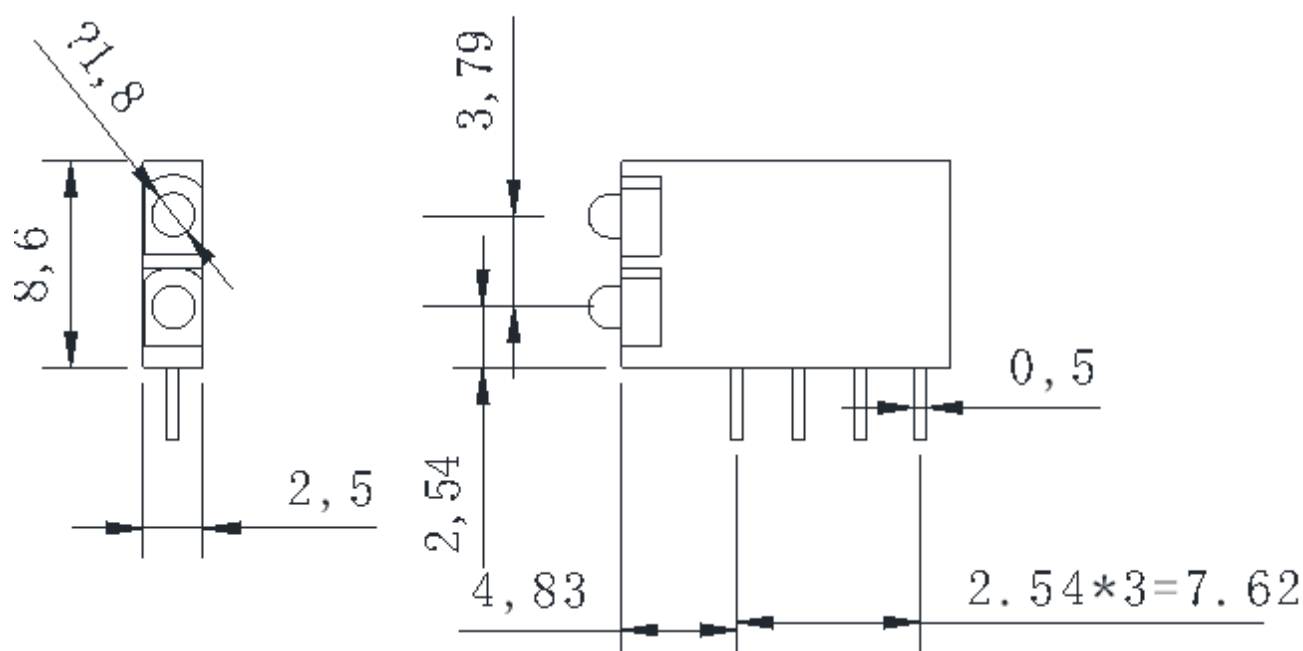
BL-LA2D2-A0802

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

Package configuration & Internal circuit diagram

BL-LA2D2-A0802 Series



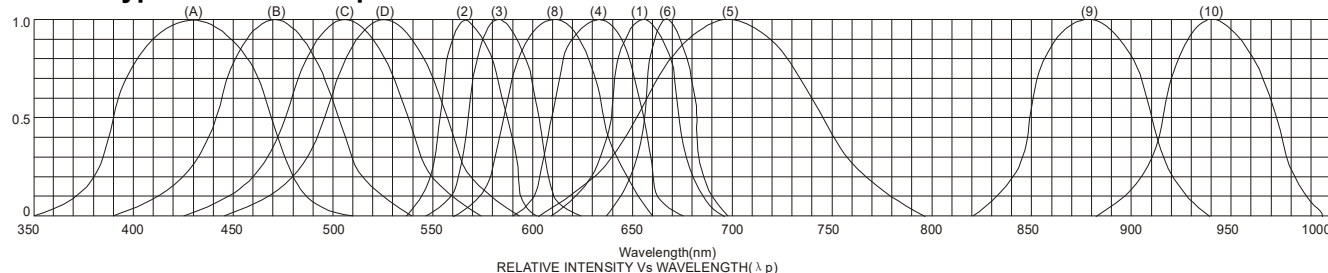
Notes:

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.

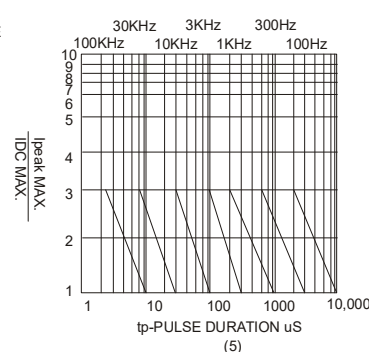
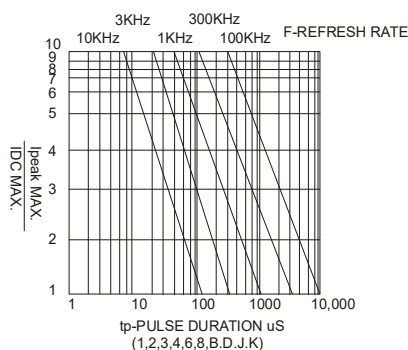
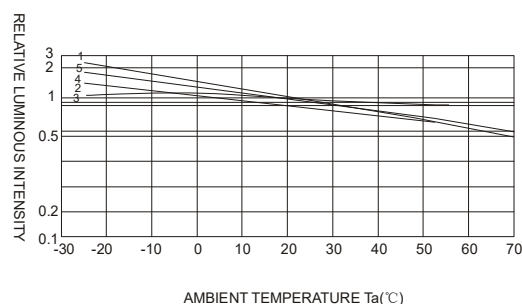
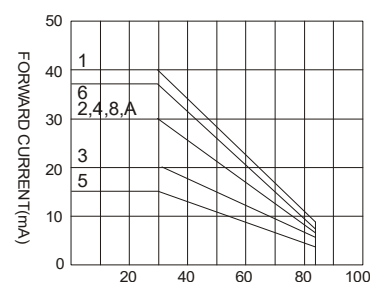
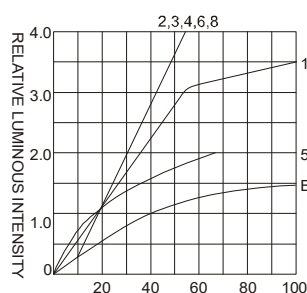
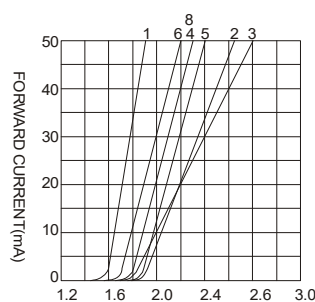
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Typical electrical-optical characteristics curves:



- | | |
|---|--------------------------------------|
| (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**

