

Circuit Board Indicator, 2mm Quad LED CBI

BL-LA4D2-B0607

■ FEATURES

- 1.8mm LED CBI, Quad level
- Quad-level CBI configuration enabling four independent indicator positions in a compact footprint
- Slim 1.8mm LED package ideal for high-density panel layouts
- Pre-formed leads ensure precise PCB alignment across all four levels
- Black housing provides high contrast and clear visibility
- Long-life LED chip with stable and uniform luminous performance
- UL 94V-0 rated PA66 housing
- Halogen-free and RoHS compliant



■ APPLICATIONS

- Miniature status indicators
- Multi-step status indication (four-level signal displays)
- Dense instrumentation and control panels
- Vertical indicator stacks for communication or testing equipment
- Compact display modules and tower indicators
- Portable or space-limited device signaling

■ 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)

Color Code	Single LED Color	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.	
E	Mono color	amber	AlGaAs	610	Color Diffused	2.1	2.5	5	30	60
R	Mono color	Red	GaAsP/GaP	635	Color Diffused	2.1	2.5	10	70	60
Y	Mono color	Yellow	GaAsP/GaP	585	Color Diffused	2.1	2.5	1.5	20	60
G	Mono color	Green	GaP/GaP	570	Color Diffused	2.2	2.5	1.5	20	60
B	Mono color	Blue	InGaN	465	Color Diffused	2.2	2.5	1.5	20	60
W	Mono color	White	InGaN	-	Color Diffused	3.1	4.2	300	700	60
RG	Bi-color	Red	GaAsP/GaP	635	Color Diffused	2.1	2.5	10	70	60
		Green	GaP/GaP	570	Color Diffused	2.2	2.5	1.5	20	60
YG	Bi-color	Yellow	GaAsP/GaP	585	Color Diffused	2.1	2.5	1.5	20	60
		Green	GaP/GaP	570	Color Diffused	2.2	2.5	1.5	20	60
GB	Bi-color	Green	GaP/GaP	570	Color Diffused	2.2	2.5	1.5	20	60
		Blue	InGaN	465	Color Diffused	2.2	2.5	1.5	20	60
GE	Bi-color	Green	GaP/GaP	570	Color Diffused	2.2	2.5	1.5	20	60
		amber	AlGaAs	610	Color Diffused	2.1	2.5	5	30	60
RY	Bi-color	Red	GaAsP/GaP	635	Color Diffused	2.1	2.5	10	70	60
		Yellow	GaAsP/GaP	585	Color Diffused	2.1	2.5	1.5	20	60

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Product Select Guide

Part No	LED 1	LED 2	LED 3	LED 4
BL-LA4D2-B0607BBBB	B	B	B	B
BL-LA4D2-B0607GEGE	G	E	G	E
BL-LA4D2-B0607GGGE	G	G	G	E
BL-LA4D2-B0607GREE	G	R	E	E
BL-LA4D2-B0607RGYE	R	G	Y	E
BL-LA4D2-B0607GGGG	G	G	G	G
BL-LA4D2-B0607GGRG	G	G	R	G
BL-LA4D2-B0607GGYG	G	G	Y	G
BL-LA4D2-B0607GRGG	G	R	G	G
BL-LA4D2-B0607GRYG	G	R	Y	G
BL-LA4D2-B0607GYGG	G	Y	G	G
BL-LA4D2-B0607GYYG	G	Y	Y	G
BL-LA4D2-B0607RGGG	R	G	G	G
BL-LA4D2-B0607RGRG	R	G	R	G
BL-LA4D2-B0607RGYG	R	G	Y	G
BL-LA4D2-B0607RRGG	R	R	G	G
BL-LA4D2-B0607RRRG	R	R	R	G
BL-LA4D2-B0607RRYG	R	R	Y	G
BL-LA4D2-B0607RYGG	R	Y	G	G
BL-LA4D2-B0607RYRG	R	Y	R	G
BL-LA4D2-B0607RYYG	R	Y	Y	G
BL-LA4D2-B0607YGGG	Y	G	G	G
BL-LA4D2-B0607YGYG	Y	G	Y	G
BL-LA4D2-B0607YRRG	Y	R	R	G
BL-LA4D2-B0607YYGG	Y	Y	G	G
BL-LA4D2-B0607YYRG	Y	Y	R	G
BL-LA4D2-B0607GGGR	G	G	G	R
BL-LA4D2-B0607GGRR	G	G	R	R
BL-LA4D2-B0607GGXR	G	G	X	R
BL-LA4D2-B0607GGYR	G	G	Y	R
BL-LA4D2-B0607GRGR	G	R	G	R
BL-LA4D2-B0607GRRR	G	R	R	R
BL-LA4D2-B0607GRYR	G	R	Y	R
BL-LA4D2-B0607GYGR	G	Y	G	R
BL-LA4D2-B0607GYRR	G	Y	R	R
BL-LA4D2-B0607GYRR	G	Y	Y	R
BL-LA4D2-B0607RGYR	R	G	Y	R
BL-LA4D2-B0607RRRR	R	R	R	R
BL-LA4D2-B0607RRYR	R	R	Y	R
BL-LA4D2-B0607RYGR	R	Y	G	R
BL-LA4D2-B0607RYRR	R	Y	R	R
BL-LA4D2-B0607YRRR	Y	R	R	R

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BL-LA4D2-B0607YRYR	Y	R	Y	R
BL-LA4D2-B0607WWW	W	W	W	W
BL-LA4D2-B0607GRRX	G	R	R	X
BL-LA4D2-B0607RRRX	R	R	R	X
BL-LA4D2-B0607RYRX	R	Y	R	X
BL-LA4D2-B0607GGGY	G	G	G	Y
BL-LA4D2-B0607GGRY	G	G	R	Y
BL-LA4D2-B0607GGYY	G	G	Y	Y
BL-LA4D2-B0607GREY	G	R	E	Y
BL-LA4D2-B0607GRGY	G	R	G	Y
BL-LA4D2-B0607GRRY	G	R	R	Y
BL-LA4D2-B0607GRYY	G	R	Y	Y
BL-LA4D2-B0607GYGY	G	Y	G	Y
BL-LA4D2-B0607GYYY	G	Y	Y	Y
BL-LA4D2-B0607REGY	R	E	G	Y
BL-LA4D2-B0607RGBY	R	G	B	Y
BL-LA4D2-B0607RGGY	R	G	G	Y
BL-LA4D2-B0607RGYY	R	G	Y	Y
BL-LA4D2-B0607RRGY	R	R	G	Y
BL-LA4D2-B0607RRRY	R	R	R	Y
BL-LA4D2-B0607RYGY	R	Y	G	Y
BL-LA4D2-B0607RYYY	R	Y	Y	Y
BL-LA4D2-B0607YYYY	Y	Y	Y	Y

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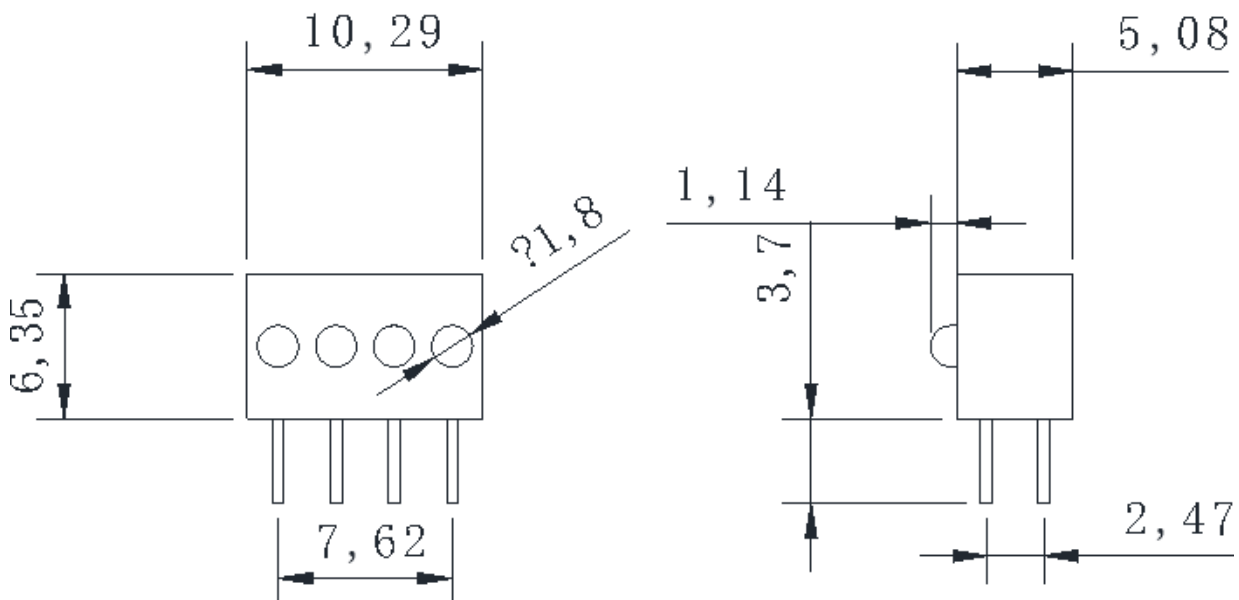
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■ Absolute maximum ratings (Ta=25°C)

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-LA4D2-B0607 series



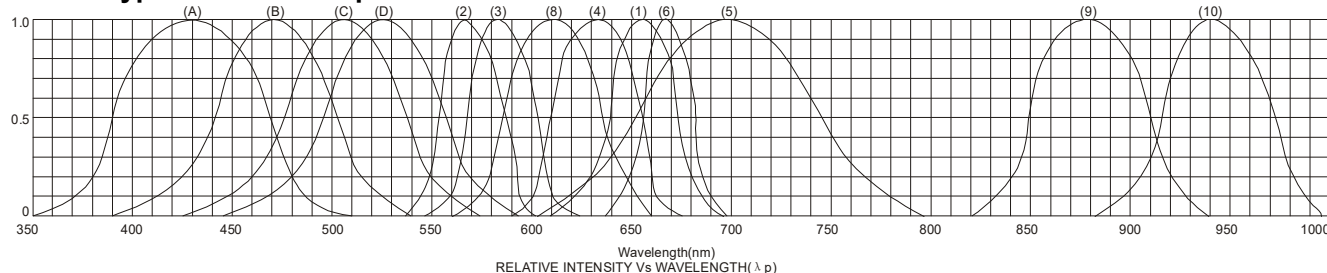
Notes:

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.

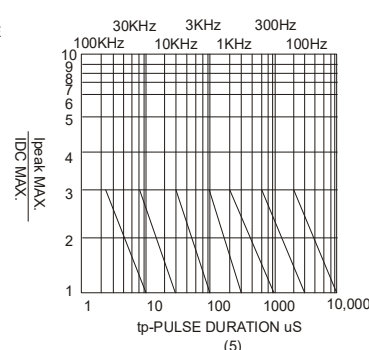
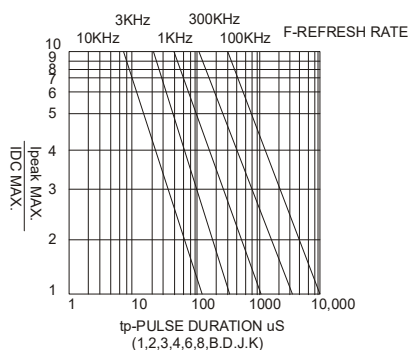
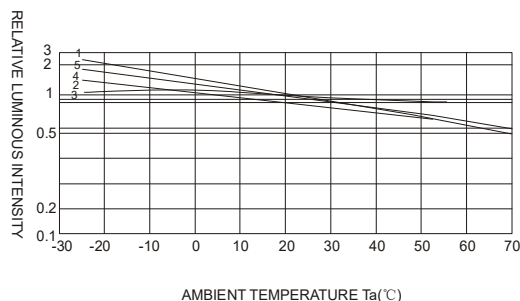
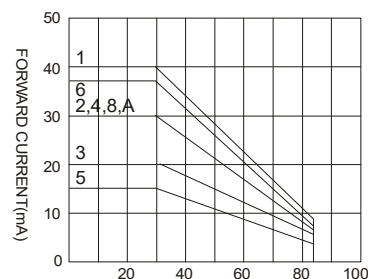
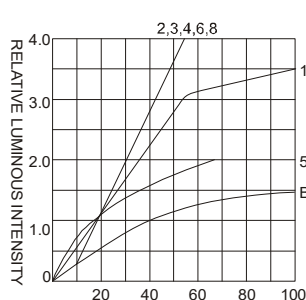
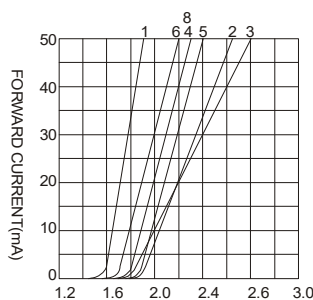
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■ Typical electrical-optical characteristics curves:



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

