Circuit Board Indicator, 5mm LED CBI

BL-LA1D5-A0606

■ FEATURES

- ➢ 5mm LED CBI, single level
- ➢ Single-level CBI package for precise PCB alignment
- ➢ Pre-trimmed leads suitable for automated insertion
- ➢ Black housing enhances contrast and improves indicator visibility
- ➢ High-reliability design with long operating lifetime
- ➢ UL 94V-0 rated PA66 housing material
- ➢ Halogen-free and RoHS compliant





■ APPLICATIONS

- ➢ Status and power indicators
- ➢ Control panels and dashboard displays
- ➢ Switch and button backlighting
- ➢ Compact signage and indicator modules
- ➢ Consumer, industrial, and appliance 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)

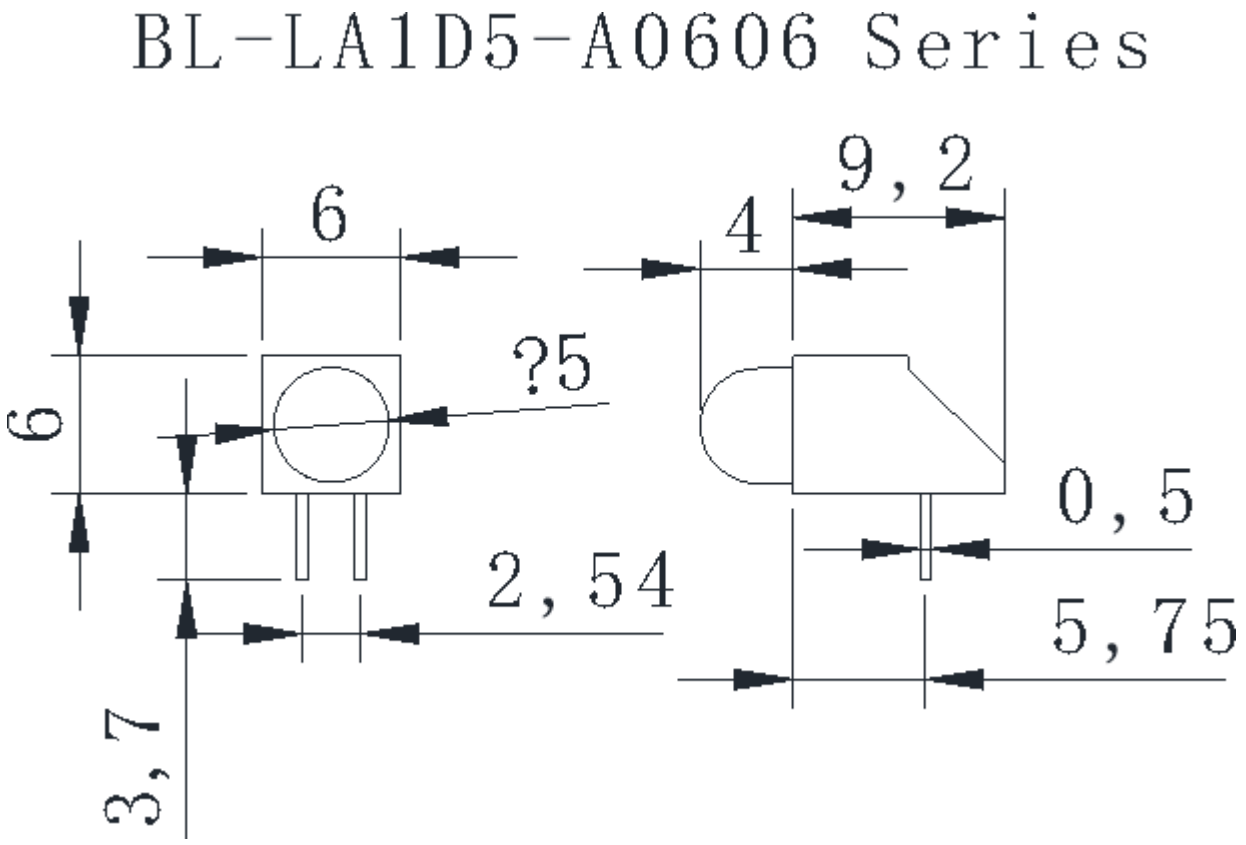
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Part Number	Assembly LED		Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2θ1/2 (deg)
			Emitted Color	Material	λP (nm)		Typ	Max	Min.	Typ.	
BL-LA1D5-A0606B	LED1	B	Blue	InGaN	465	C. D.	3.1	4.2	300	700	60
BL-LA1D5-A0606E	LED1	E	amber	AlGaAs	610	C. D.	1.85	2.2	30	110	60
BL-LA1D5-A0606G	LED1	G	Green	GaP/GaP	570	C. D.	2.2	2.5	1.5	20	60
BL-LA1D5-A0606R	LED1	R	Red	GaAsP/GaP	635	C. D.	2.1	2.5	10	70	60
BL-LA1D5-A0606W	LED1	W	White	InGaN	-	C. D.	3.1	4.2	300	700	60
BL-LA1D5-A0606Y	LED1	Y	Yellow	GaAsP/GaP	585	C. D.	2.1	2.5	1.5	20	60

■ 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

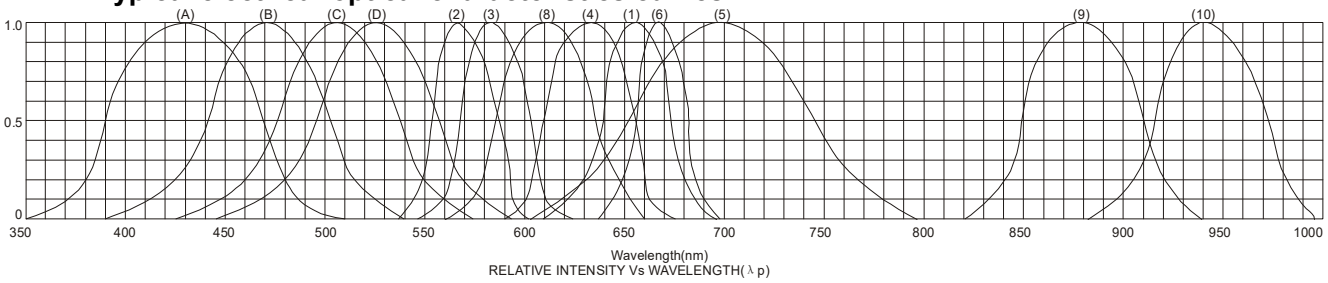


Notes:
1. All dimensions are in millimeters (inches)
2. Tolerance is ±0.25(0.01")unless otherwise noted.
3. Specifications are subject to change without notice.

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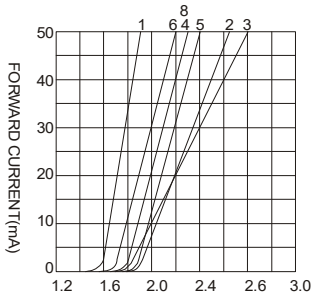
BL-LA1D5-A0606

■ Typical electrical-optical characteristics curves:

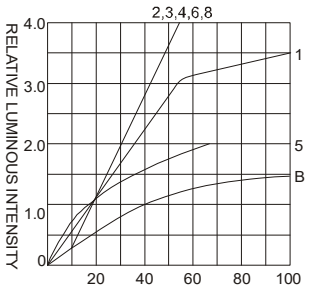


RELATIVE INTENSITY Vs WAVELENGTH(λp)

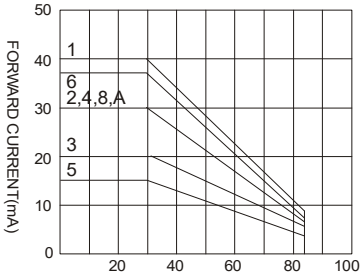
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



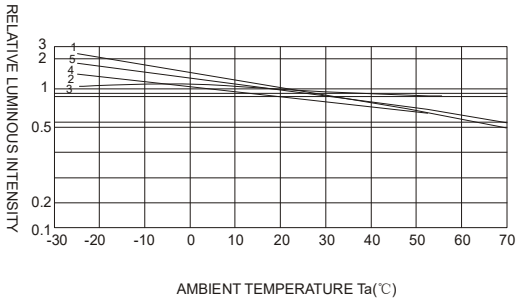
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE

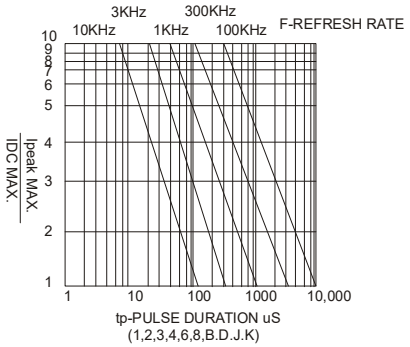


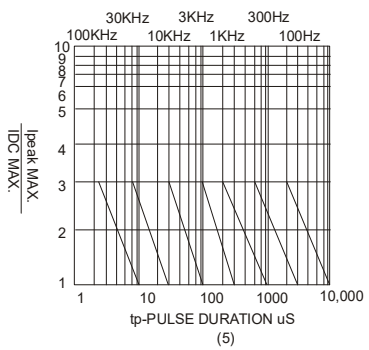
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta(℃)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE







NOTE:25℃ free air temperature unless otherwise specified

■ Packing and weighting

