

SMD LED LAMP, BI-COLOR
BL-LS1210xx
Features:

- Ø 3.2mmx2.7mm SMD, 1.1mm THICKNESS
- Ø Bi-color type
- Ø Compatible with automatic placement equipment
- Ø WIDE VIEWING ANGLE.
- Ø IDEAL FOR BACKLIGHT AND INDICATOR.
- Ø PACKAGE: 3KPCS/REEL
- Ø RoHs Compliance


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

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2θ/2 (deg)
	Emitted Color	Material	λp f (nm)		Typ	Max	Min.	Typ.	
					BL-LS1210SGC	Red	GaAlAs	660	
	Green	GaP	568	2.30	2.70	6	15		
BL-LS1210EGC	Orange	GaAsP	640	2.10	2.60	4	8		
	Green	GaP	568	2.30	2.70	6	15		
BL-LS1210UYUGC	Ultra Yellow	AlInGaP	593	2.10	2.60	20	70		
	Ultra Green	AlInGaP	575	2.20	2.70	15	45		
BL-LS1210UEUGC	Ultra Orange	AlInGaP	645	2.10	2.60	22	80		
	Ultra Green	AlInGaP	575	2.20	2.70	15	45		

Absolute maximum ratings (Ta=25°C)

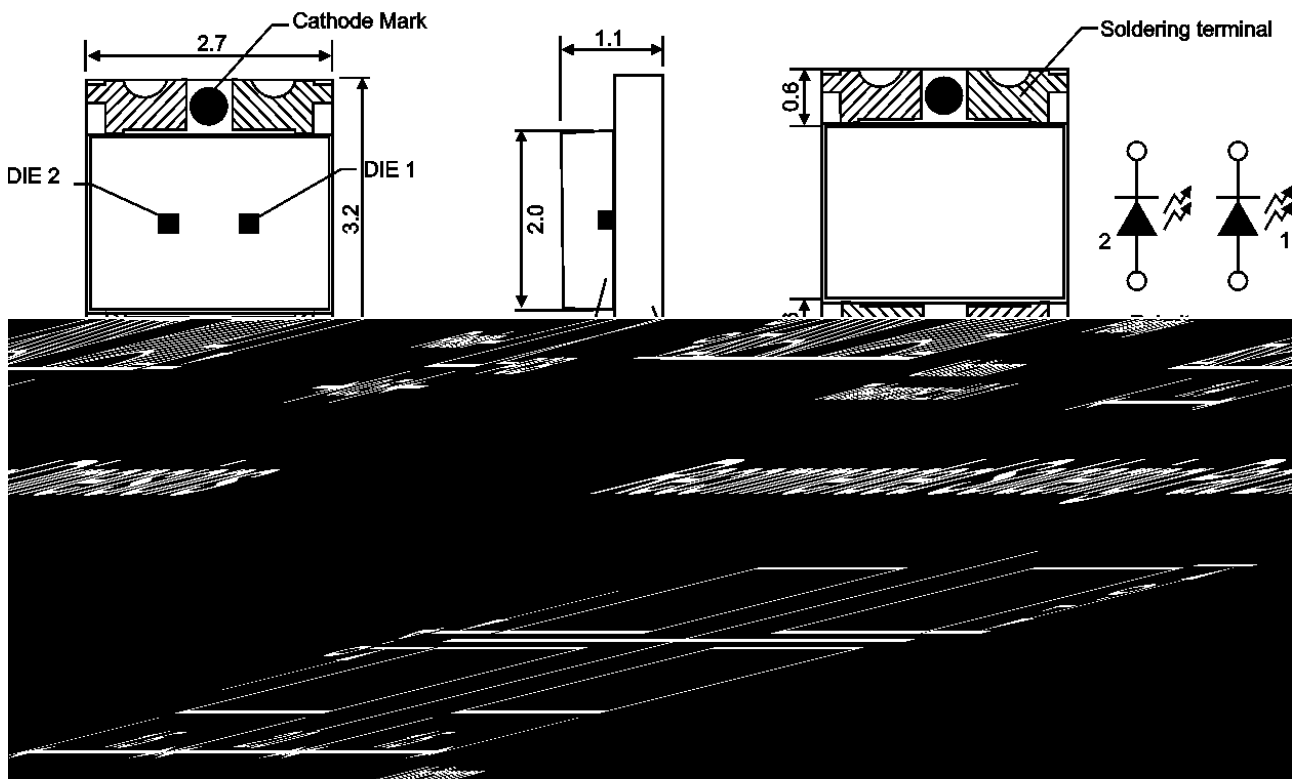
Parameter	Rating	Unit
Forward Current I _F	30	mA
Power Dissipation P _d	78	mW
Reverse Voltage V _R	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	100	mA
Operation Temperature T _{OPR}	-30 to +80	°C
Storage Temperature T _{STG}	-40 to +85	°C
Lead Soldering Temperature T _{SOL}	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)	°C

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Package configuration & Internal circuit diagram

BL-LS1210 Series Package Outline Drawing



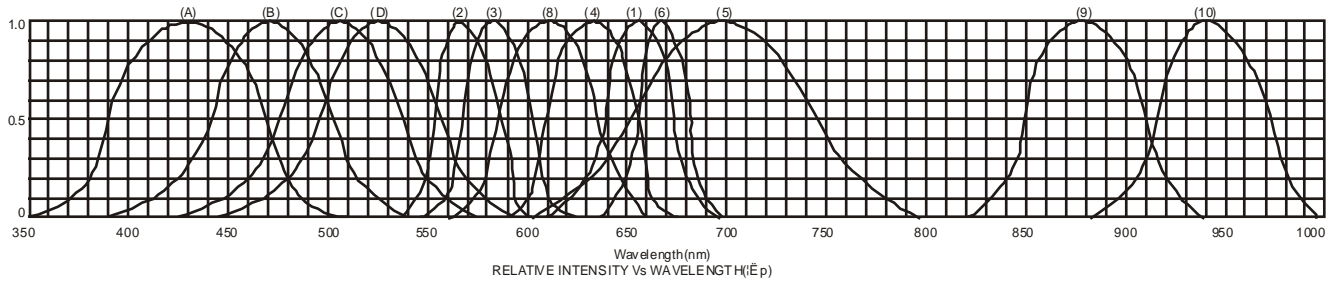
Notes:

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.

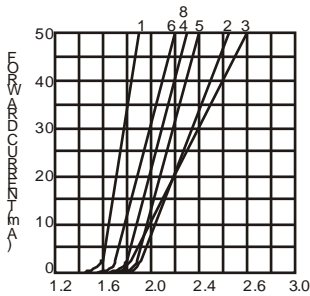
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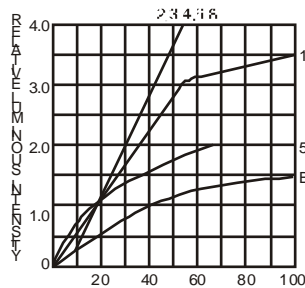
Typical electrical-optical characteristics curves:



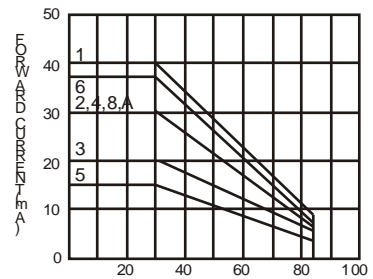
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



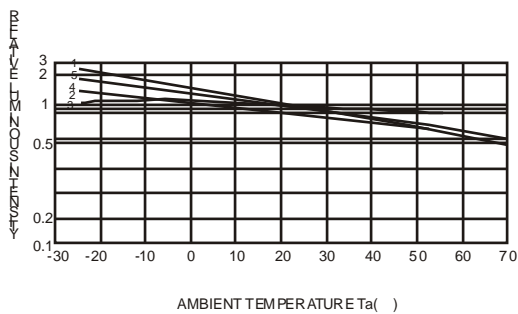
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



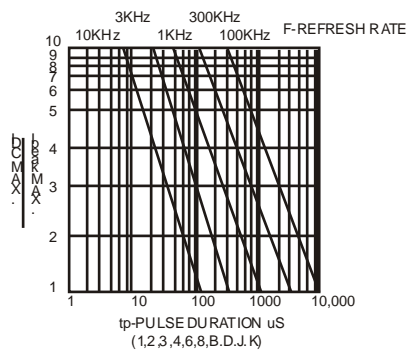
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



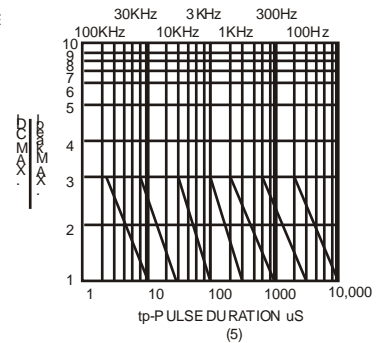
AMBIENT TEMPERATURE Ta (°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta (°C)



tp-PULSE DURATION μ s
(1,2,3,4,6,8,B,D,J,K)



tp-PULSE DURATION μ s
(5)

NOTE:25 free air temperature unless otherwise specified