

SMD LED LAMP

BL-LS1210xx

Features:

- 3.2mmx2.7mm SMD, 1.1mm THICKNESS
- BI-color type
- Compatible with automatic placement equipment
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 3KPCS/REEL
- 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 2θ1/2 (deg)
	Emitted Color	Material	λ _P (nm)						
					Typ	Max	Min.	Typ.	
BL-LS1210RGBC	Super Red	GaAlAs/GaAs, DH	660	Water clear	1.85	2.20	5	10	120
	Green	GaP/GaP	570		2.20	2.50	6	14	
	Ultra Blue	InGaN	470		3.10	4.20	10	18	
BL-LS1210URUGUBC	Ultra Red	AlGaInP	630	Water clear	2.10	2.50	40	55	120
	Ultra Pure Green	InGaN	525		3.10	4.20	35	20	
	Ultra Blue	InGaN	470		3.10	4.20	20	28	

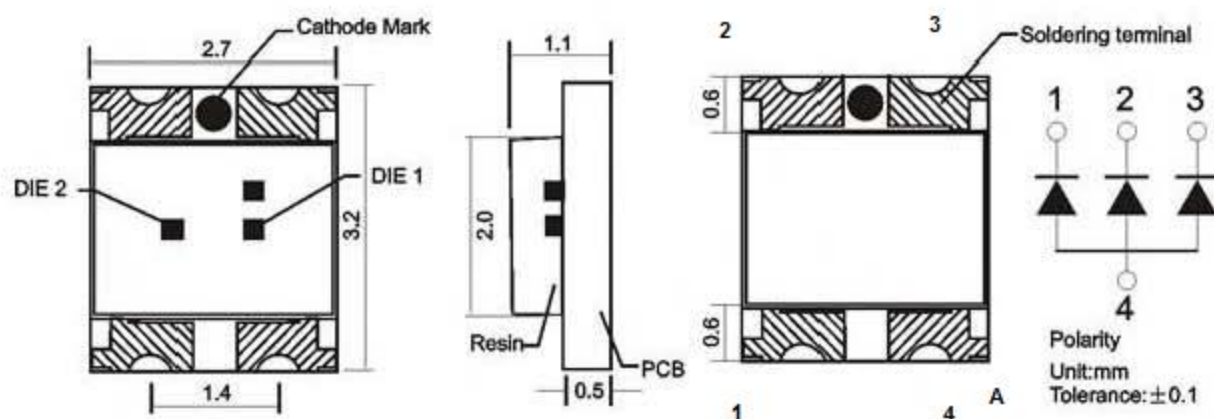
■ Absolute maximum ratings (Ta=25°C)

Parameter	S	G	B		UR	UG	UB	Unit
Forward Current I _F	25	30	30		25	30	30	mA
Power Dissipation P _d	60	65	120		60	75	120	mW
Reverse Voltage V _R	5	5	5		5	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	150	150	100		150	150	100	mA
Operation Temperature T _{OPR}	-40 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

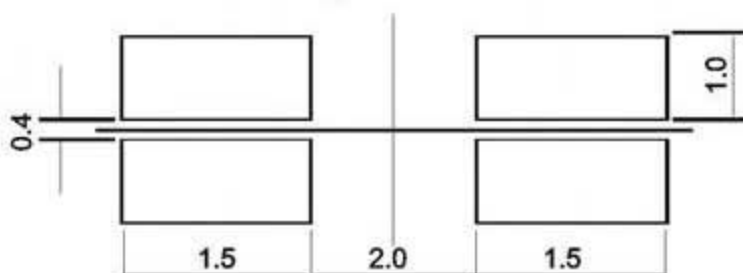
■ **Package configuration & Internal circuit diagram**

BL-LS1210RGB

Package Outline Drawing



Recommended Soldering Pad Dimensions



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.

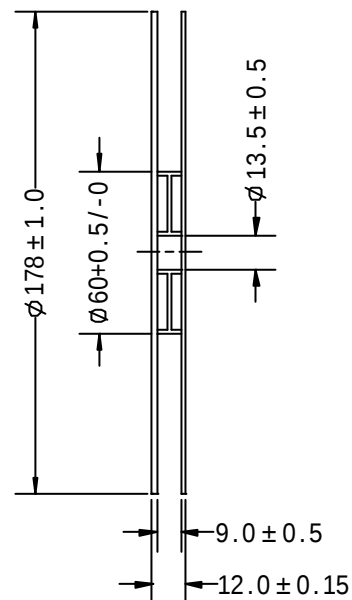
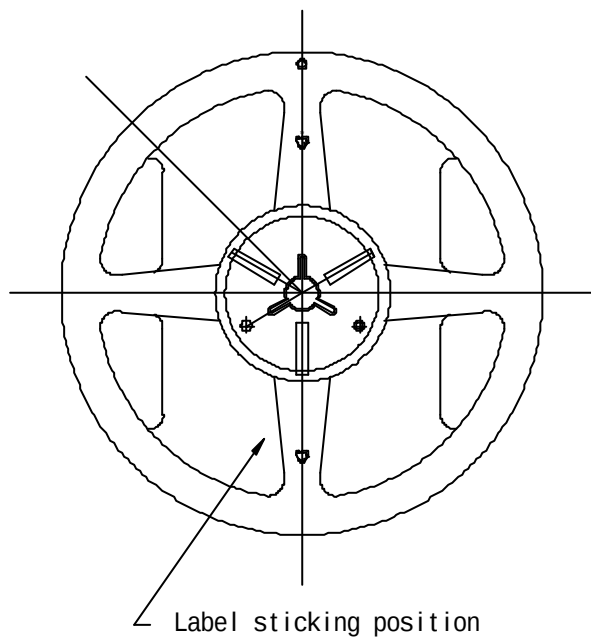
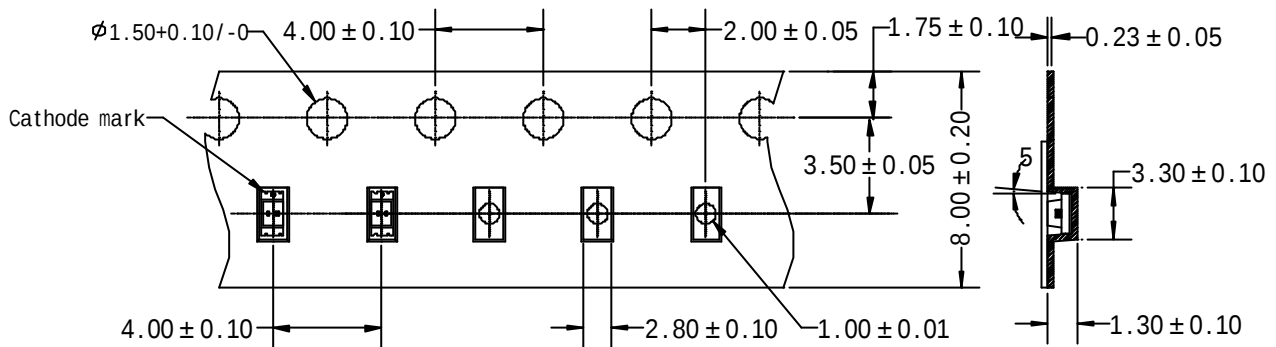
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■ Tape Specifications

Unit : mm

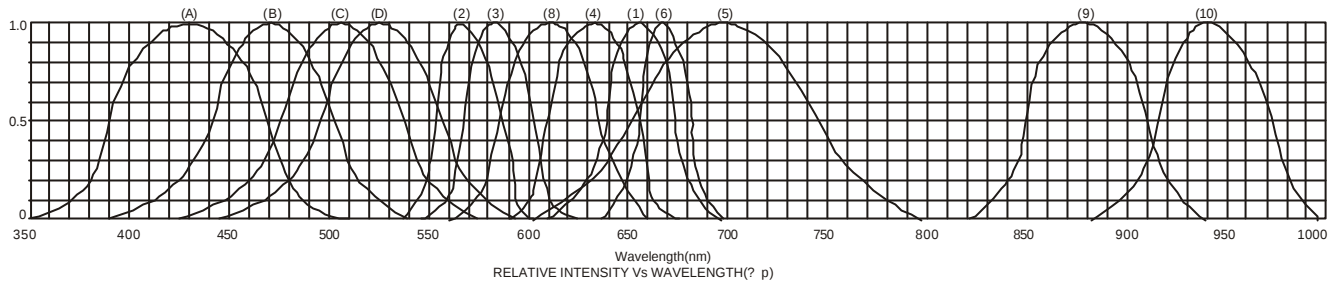
Tolerance : ± 0.1



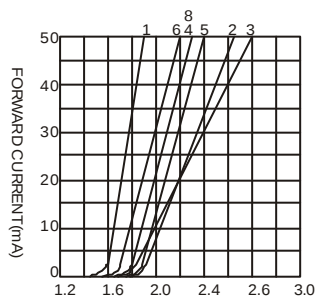
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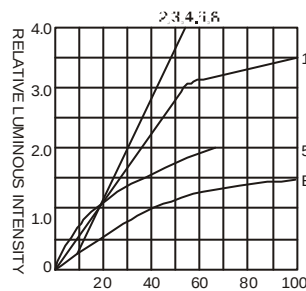
➤ Typical electrical-optical characteristics curves:



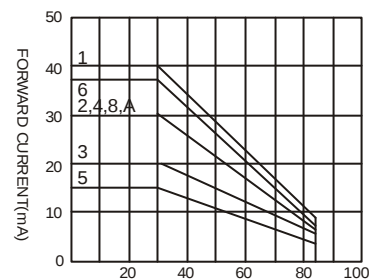
- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (9) - GaAlAs 880nm |
| (2) - GaP 570nm/Yellow Green | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow | (A) - GaN/SiC 430nm/Blue |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue |
| (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 | |



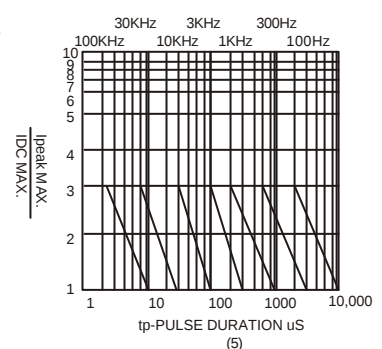
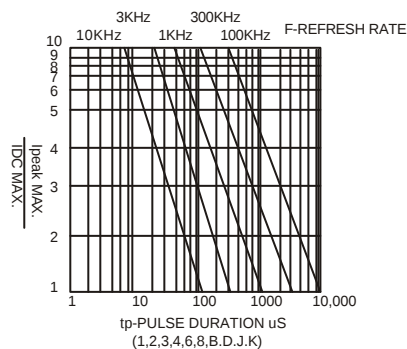
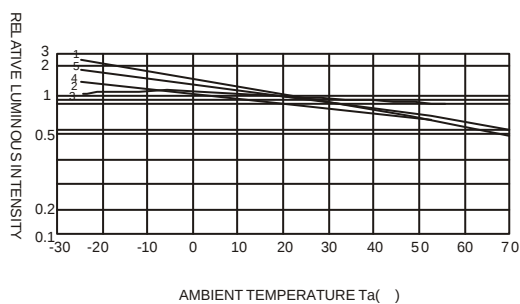
FORWARD CURRENT VS.
FORWARD VOLTAGE



RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



FORWARD CURRENT VS. AMBIENT
TEMPERATURE



NOTE:25 free air temperature unless otherwise specified

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■ Packing and weighting

