SMD LED LAMP

BL-LS3210A0E2

Features:

- 3.2mmx1.0mm SMD, 1.5mm 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-LS3210A0E2EGC	Red	GaAsP	640	Water Clear	2.10	2.60	4	10	110
	Green	GaP	568		2.30	2.70	6	15	
BL-LS3210A0E2UYUGC	Ultra Yellow	AlInGaP	593		2.10	2.60	20	60	
	Ultra Green	AlInGaP	575		2.20	2.70	15	50	
BL-LS3210A0E2UEUGC	Ultra Red	AlInGaP	645		2.10	2.60	20	60	
	Ultra Green	AlInGaP	575		2.20	2.70	15	50	

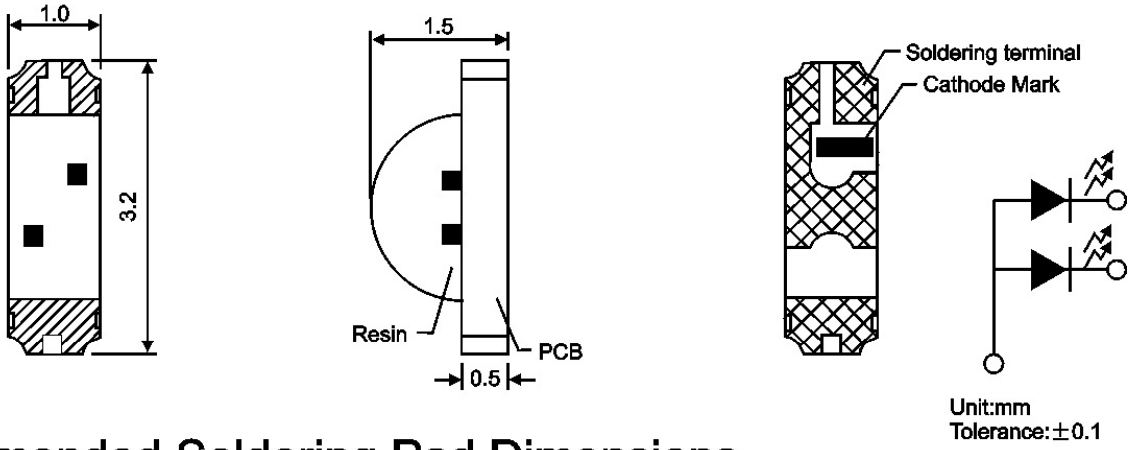
■ Absolute maximum ratings (Ta=25°C)

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

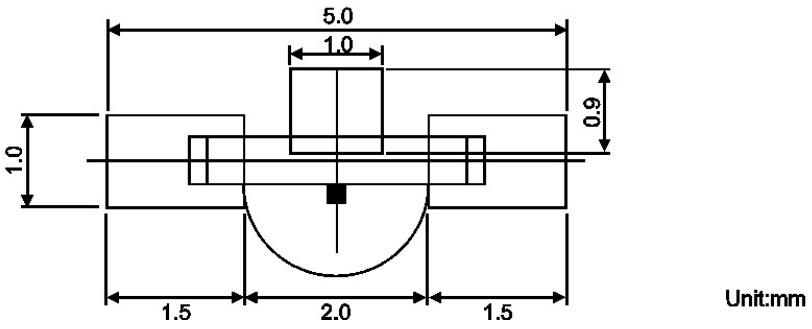
■ **Package configuration & Internal circuit diagram**

BL-LS3210A0E2XX Series

Package Outline Drawing



Recommended Soldering Pad Dimensions

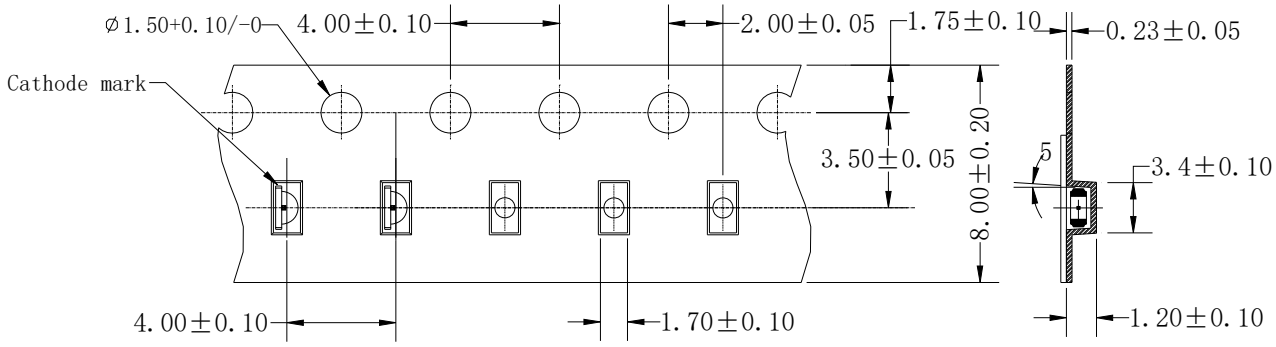


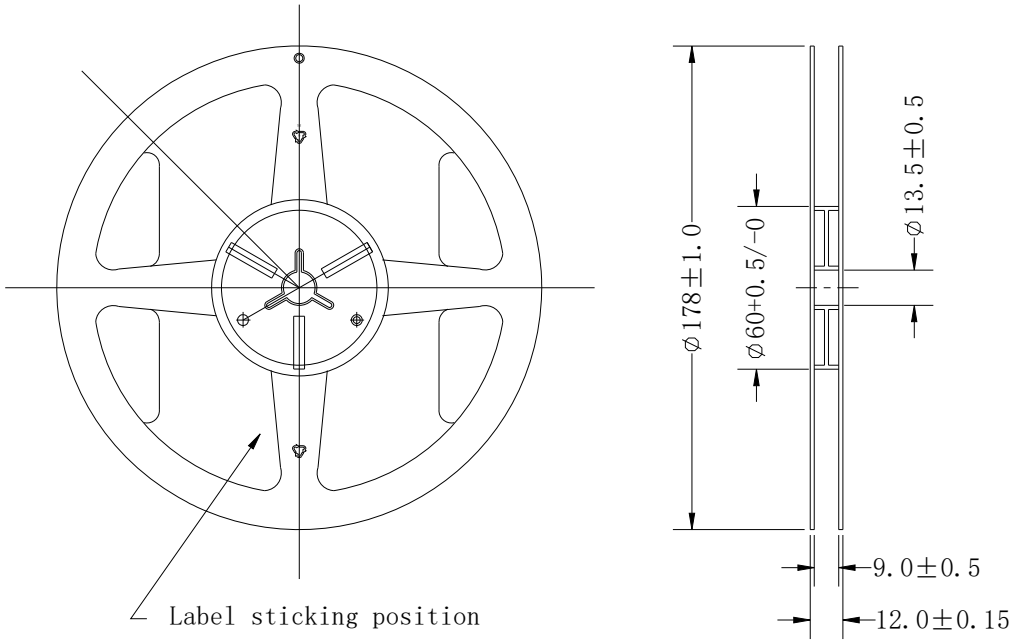
Notes:
1. All dimensions are in millimeters (inches)
2. Tolerance is ±0.25(0.01")unless otherwise noted.
3. Specifications are subject to change without notice.

■ Tape Specifications

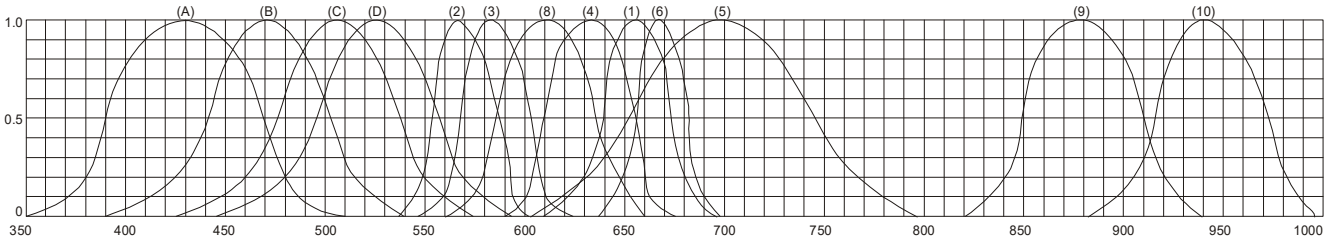
Unit: mm

Tolerance: ±0.1



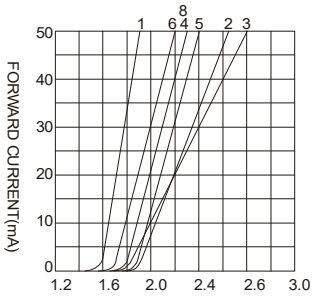


■ Typical electrical-optical characteristics curves:

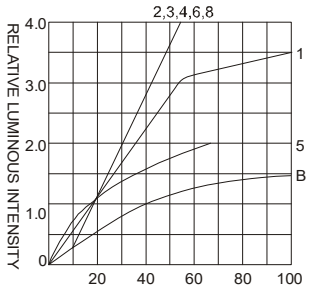


RELATIVE INTENSITY Vs WAVELENGTH(λ p)

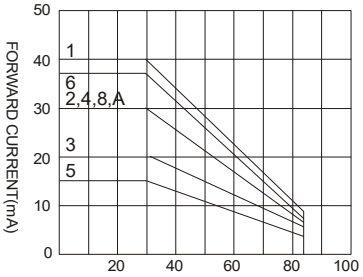
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



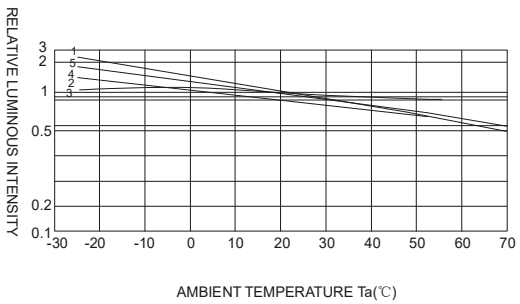
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE

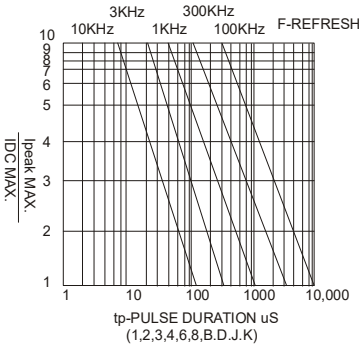


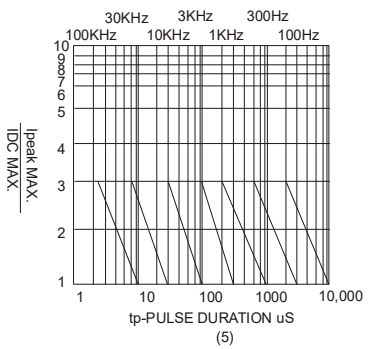
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



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







NOTE:25℃ free air temperature unless otherwise specified

■ Packing and weighting

