SMD LED LAMP, BI-COLOR

BL-LS3227A0E2XX

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 2?1/2(deg)
	Emitted Color	Material	λ_P (nm)		Typ	Max	Min.	Typ.	
BL-LS3227A0E2SGC	Red	GaAlAs	660	Water Clear	1.85	2.20	5	18	130
	Green	GaP	568		2.30	2.70	6	15	
BL-LS3227A0E2EGC	Red	GaAsP	640		2.10	2.60	4	8	
	Green	GaP	568		2.30	2.70	6	15	
BL-LS3227A0E2UYUGC	Ultra Yellow	AlInGaP	593		2.10	2.60	20	70	
	Ultra Green	AlInGaP	575		2.20	2.70	15	45	
BL-LS3227A0E2UEUGC	Ultra Red	AlInGaP	645		2.10	2.60	22	80	
	Ultra Green	AlInGaP	575		2.20	2.70	15	45	
BL-LS3227A0E2UHRUBC	Ultra Red	AlGaAs	645		2.10	2.60	30	80	
	Ultra Blue	InGaN	470		3.50	4.20	10	30	

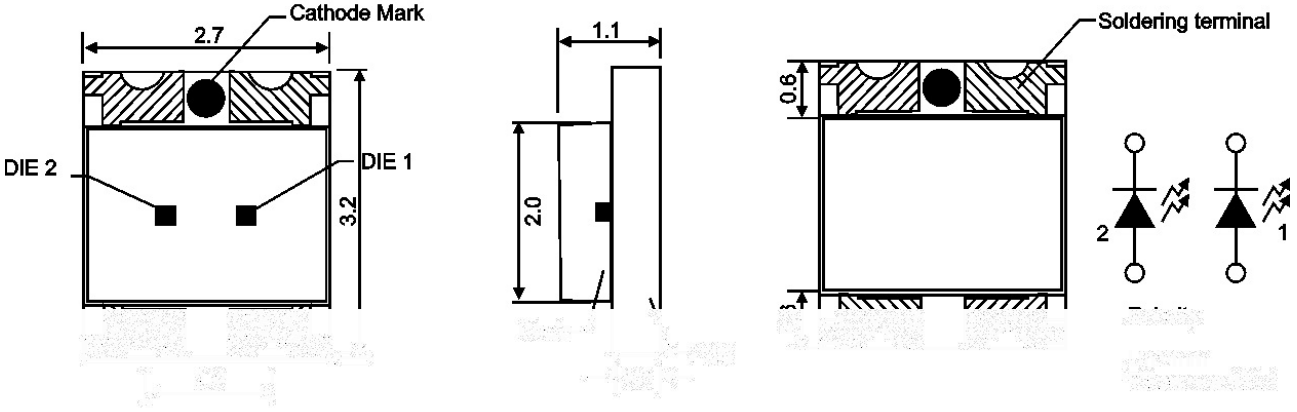
■ Absolute maximum ratings (Ta=25°C)

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-LS3227A0E2XX Series

Package Outline Drawing

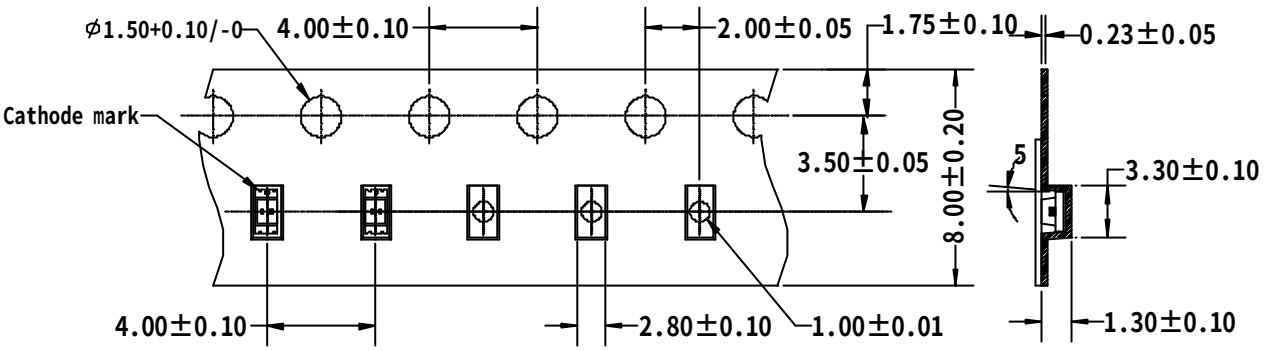


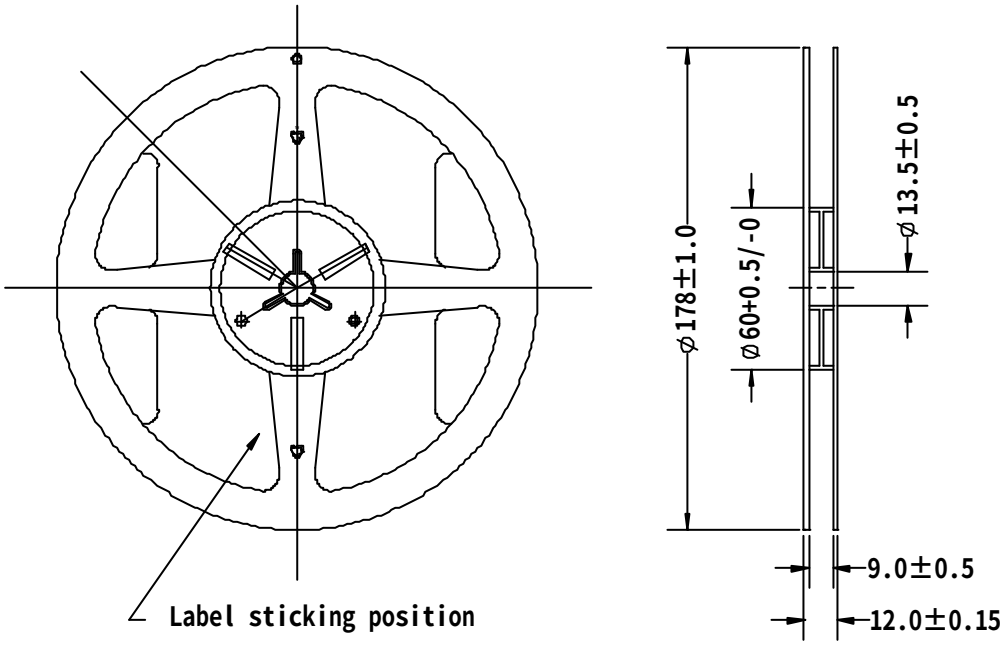
Notes:
1. All dimensions are in millimeters (inches)
2. Tolerance is ± 0.25(0.01")unless otherwise noted.
3. Specifications are subject to change without notice.

■ Tape Specifications

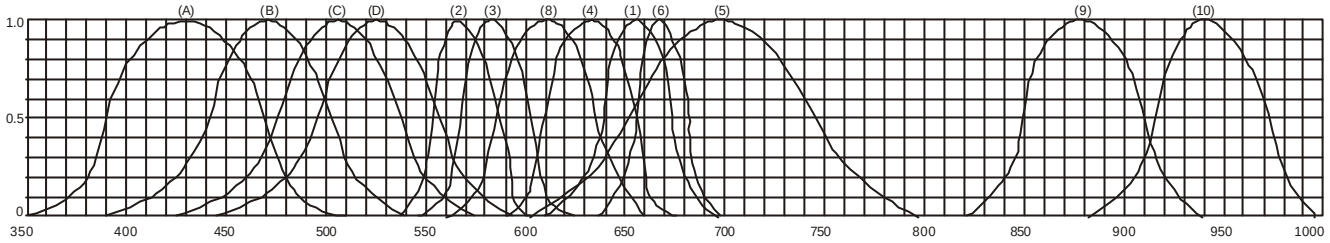
Unit：mm

Tolerance：±0.1



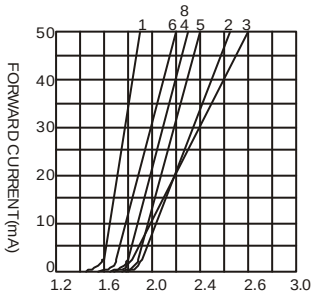


■ Typical electrical-optical characteristics curves:

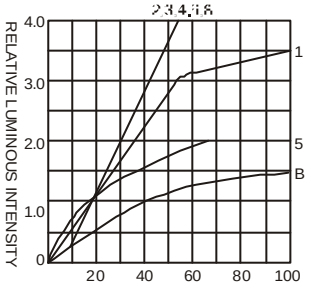


RELATIVE INTENSITY Vs WAVELENGTH(? p)

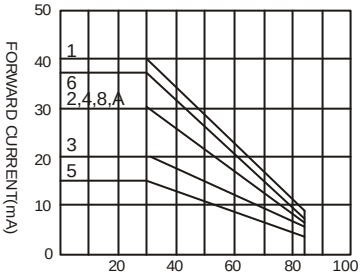
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



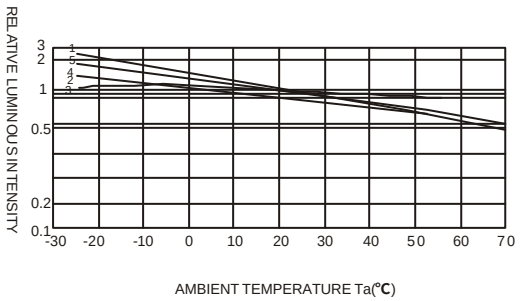
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



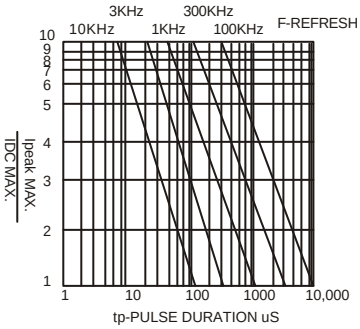
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



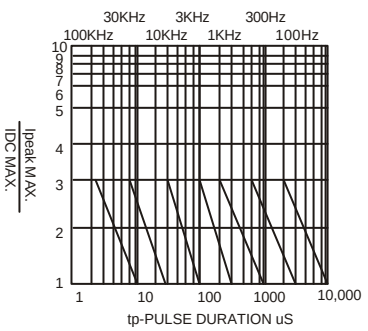
AMBIENT TEMPERATURE Ta(℃)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(℃)



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



tp-PULSE DURATION uS
(5)

NOTE:25℃ free air temperature unless otherwise specified

■ Packing and weighting