

**SMD LED LAMP**
**BL-LS1206Vxx**
**■ Features:**

- 3.2mmx1.6mm SMD, 1.1mm THICKNESS
- Mono-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 <sub>p</sub> (nm)		Typ	Max	Min.	Typ.	
					BL-LS1206VHC	Red	GaP	700	
BL-LS1206VSR	Super Red	AlGaAs	660	1.85	2.30	20	75		
BL-LS1206VLR	Super Red	AlGaAs	660	1.85	2.30	45	110		
BL-LS1206VUR	Ultra Red	AlGaAs	660	1.95	2.50	120	200		
BL-LS1206VEC	Orange	GaAsP	640	2.10	2.70	5	11		
BL-LS1206VYC	Yellow	GaAsP	583	2.15	2.70	4	16		
BL-LS1206VGC	Green	GaP	568	2.30	2.70	20	40		

**■ Absolute maximum ratings (Ta=25°C)**

Parameter	H	SR	LR	UR	E	Y	G	Unit
Forward Current I <sub>F</sub>	30	30	30	30	30	30	30	mA
Power Dissipation P <sub>d</sub>	65	78	78	78	65	65	65	mW
Reverse Voltage V <sub>R</sub>	5	5	5	5	5	5	5	V
Peak Forward Current I <sub>PF</sub> (Duty 1/10 @1KHZ)	100	100	100	100	100	100	100	mA
Operation Temperature T <sub>OPR</sub>	-30 to +80							°C
Storage Temperature T <sub>STG</sub>	-40 to +85							°C
Lead Soldering Temperature T <sub>SOL</sub>	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)							°C

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	Emitted Color	Material	λ <sub>P</sub> (nm)		Typ	Max	Min.	Typ.	
BL-LS1206VUDR	Ultra Red	AlGaAs	655	Water Clear	2.10	2.50	100	220	30
BL-LS1206VUHR	Ultra Red	AlGaAs	645		2.10	2.60	120	300	
BL-LS1206VUEC	Ultra Orange	AlGaAs	630		2.10	2.50	150	330	
BL-LS1206VUHD	Ultra Orange	AlGaAs	618		2.10	2.60	250	580	
BL-LS1206VUYO	Ultra Amber	AlGaInP	610		2.10	2.60	200	370	
BL-LS1206VUYC	Ultra Yellow	AlGaInP	593		2.10	2.60	120	270	
BL-LS1206VUGC	Ultra Green	AlGaInP	575		2.20	2.70	60	130	
BL-LS1206VPGC	Ultra Pure Green	InGaN	525		3.50	4.20	100	280	
BL-LS1206VBGC	Ultra Bluish Green	InGaN	505		3.50	4.20	220	400	
BL-LS1206VDNB	Blue	InGaN	470		3.50	4.20	30	90	
BL-LS1206VUBC	Ultra Blue	InGaN	470		3.50	4.20	55	125	
BL-LS1206VUWC	Ultra White	InGaN	/		3.50	4.20	200	400	

**Absolute maximum ratings (Ta=25°C)**

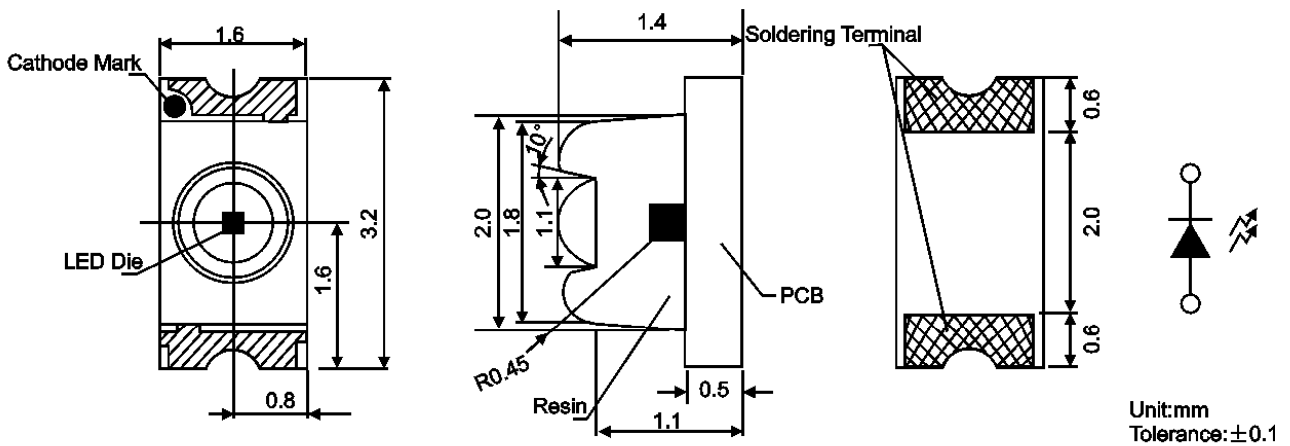
Parameter	UDR	UHR	UE	UHD	UYO	UY	UG	PG	BG	DNB	UB	UW	Unit
Forward Current I <sub>F</sub>	30	30	30	30	30	30	30	30	30	30	30	30	mA
Power Dissipation P <sub>d</sub>	78	78	78	78	78	78	78	78	78	78	78	78	mW
Reverse Voltage V <sub>R</sub>	5	5	5	5	5	5	5	5	5	5	5	5	V
Peak Forward Current I <sub>PF</sub> (Duty 1/10 @1KHZ)	100	100	100	100	100	100	100	100	100	100	100	100	mA
Operation Temperature T <sub>OPR</sub>	-30 to +80												°C
Storage Temperature T <sub>STG</sub>	-40 to +85												°C
Lead Soldering Temperature T <sub>SOL</sub>	Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)												°C

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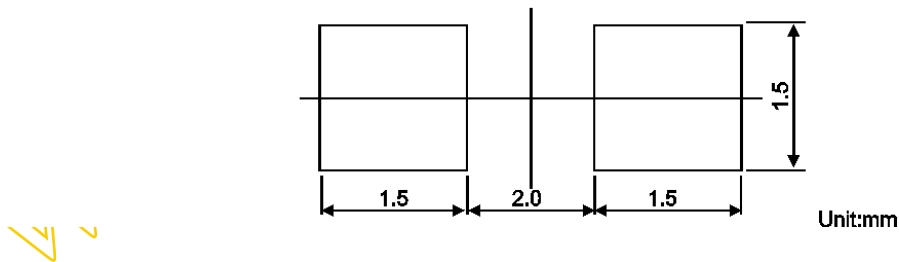
**BL-LS1206Vxx**

■ **Package configuration & Internal circuit diagram**

**BL-LS1206V Series**  
**Package Outline Drawing**



**Recommended Soldering Pad Dimensions**



**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.

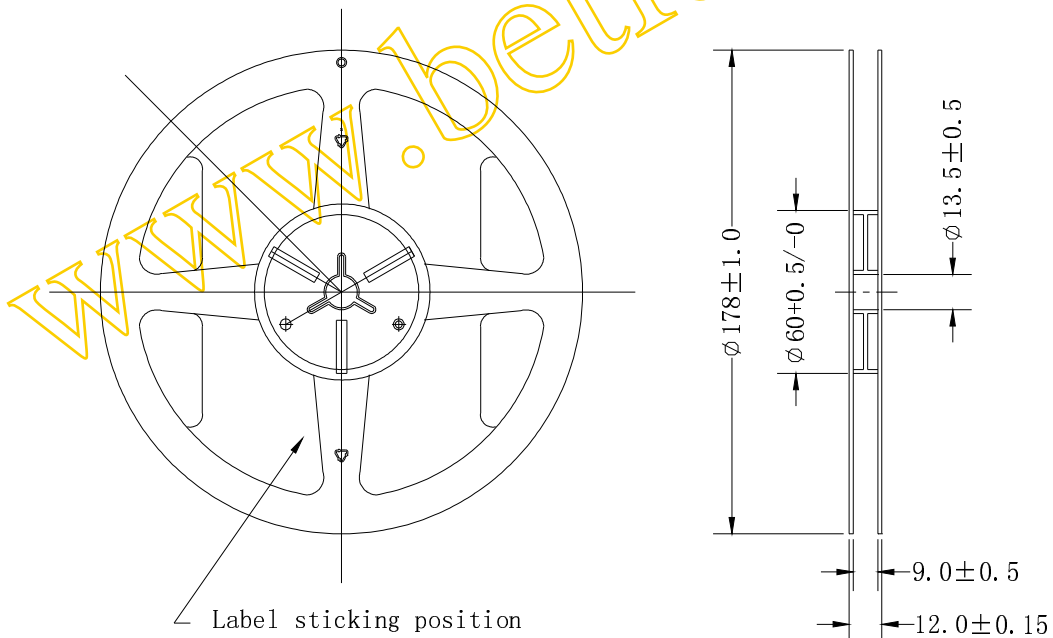
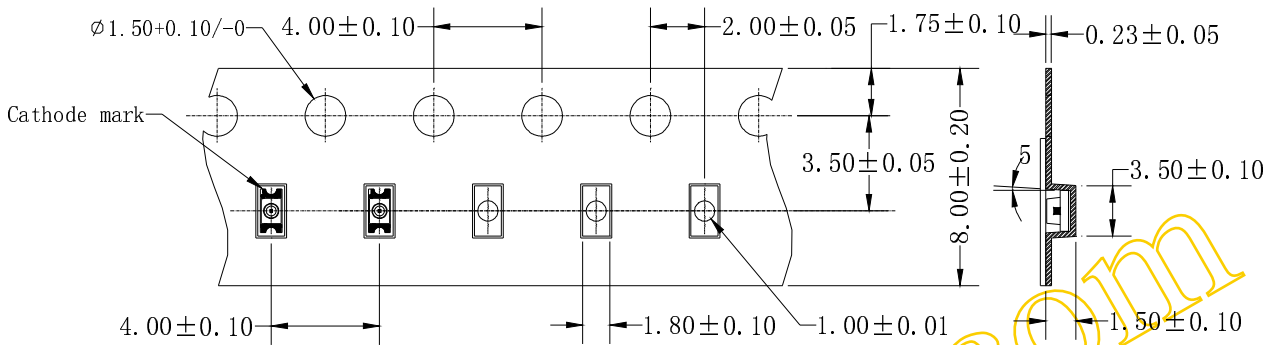
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■ **Tape Specifications**

Unit: mm

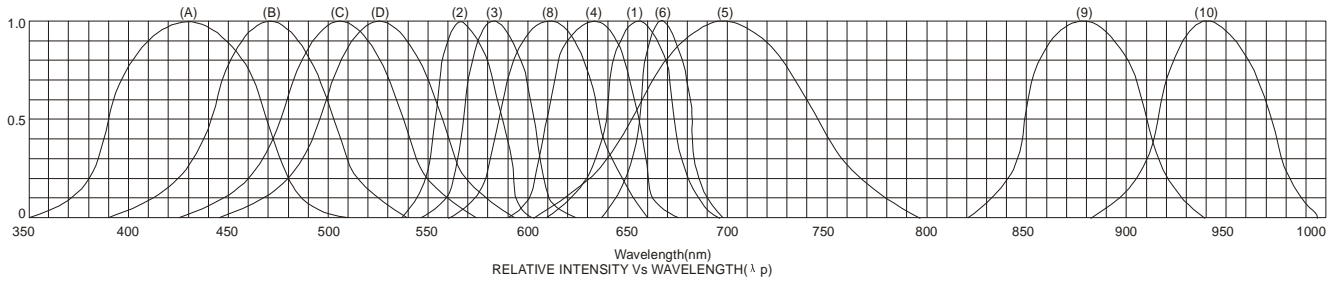
Tolerance:  $\pm 0.1$



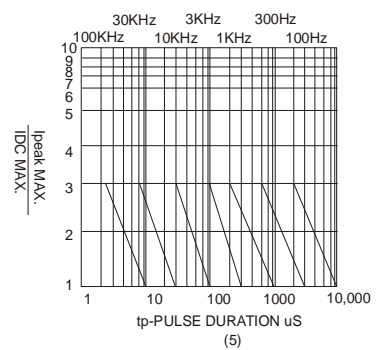
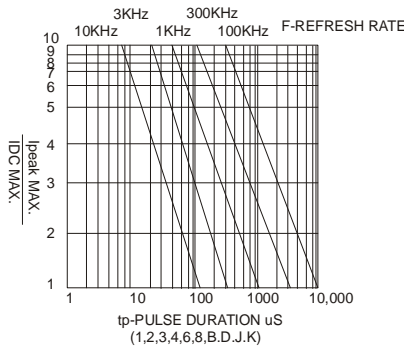
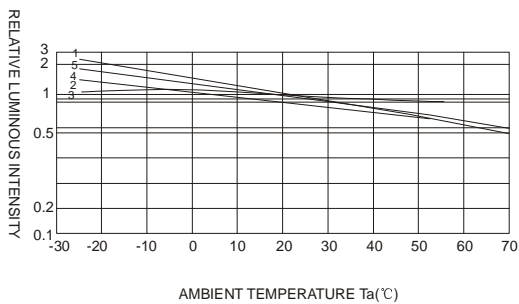
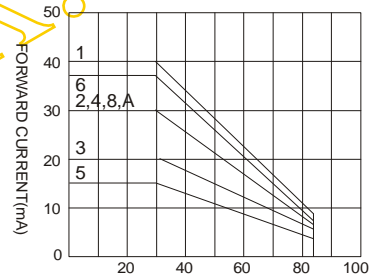
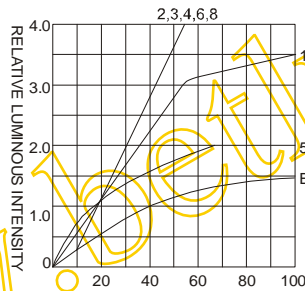
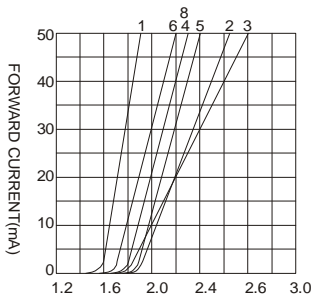
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■ **Typical electrical-optical characteristics curves:**



- (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) - InGaN/SiC 525nm/Ultra Green



NOTE:25°C free air temperature unless otherwise specified