

SMD LED LAMP
BL-LS3210A0E1
Features:

- 3.2mmx1.0mm SMD, 1.5mm 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 _P (nm)		Typ	Max	Min.	Typ.	
					BL-LS3210A0E1HC	Red	GaP	700	
BL-LS3210A0E1SRC	Super Red	AlGaAs	660	1.85	2.30	5	15		
BL-LS3210A0E1LRC	Super Red	AlGaAs	660	1.85	2.30	10	30		
BL-LS3210A0E1EC	Red	GaAsP	640	2.10	2.70	1	6		
BL-LS3210A0E1YC	Yellow	GaAsP	583	2.15	2.70	1	6		
BL-LS3210A0E1GC	Green	GaP	568	2.30	2.70	6	15		

■ Absolute maximum ratings (Ta=25°C)

Parameter	H	SR	LR	UR	E	Y	G	Unit
Forward Current I _F	30	30	30	30	30	30	30	mA
Power Dissipation P _d	65	78	78	78	65	65	65	mW
Reverse Voltage V _R	5	5	5	5	5	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	100	100	100	100	100	100	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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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-LS3210A0E1UDR	Ultra Red	AlGaAs	655	
BL-LS3210A0E1UHR	Ultra Red	AlGaAs	645	2.10	2.60	10	60		
BL-LS3210A0E1UEC	Ultra Red	AlGaAs	630	2.10	2.50	20	70		
BL-LS3210A0E1UHD	Ultra Red	AlGaAs	618	2.10	2.60	10	55		
BL-LS3210A0E1UYO	Ultra Amber	AlGaInP	610	2.10	2.60	30	90		
BL-LS3210A0E1UYC	Ultra Yellow	AlGaInP	593	2.10	2.60	15	60		
BL-LS3210A0E1UGC	Ultra Green	AlGaInP	575	2.20	2.70	15	50		
BL-LS3210A0E1PGC	Ultra Pure Green	InGaN	525	3.50	4.20	50	105		
BL-LS3210A0E1BGC	Ultra Bluish Green	InGaN	505	3.50	4.20	50	90		
BL-LS3210A0E1DNB	Blue	InGaN	470	3.50	4.20	10	50		
BL-LS3210A0E1UBC	Ultra Blue	InGaN	470	3.50	4.20	10	40		
BL-LS3210A0E1UWC	Ultra White	InGaN	/	3.50	4.20	40	190		

■ Absolute maximum ratings (Ta=25°C)

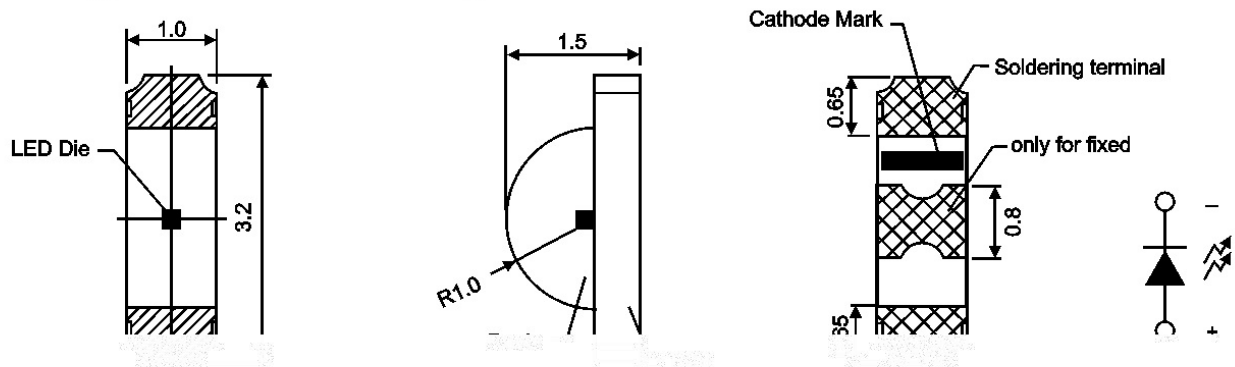
Parameter	UDR	UHR	UE	UHD	UYO	UY	UG	PG	BG	DNB	UB	UW	Unit
Forward Current I _F	30	30	30	30	30	30	30	30	30	30	30	30	mA
Power Dissipation P _d	78	78	78	78	78	78	78	78	78	78	78	78	mW
Reverse Voltage V _R	5	5	5	5	5	5	5	5	5	5	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	100	100	100	100	100	100	100	100	100	100	100	100	mA
Operation Temperature T _{OPR}	-30 to +80												°C
Storage Temperature T _{STG}	-40 to +85												°C
Lead Soldering Temperature T _{SOI}	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-LS3210A0E1 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.

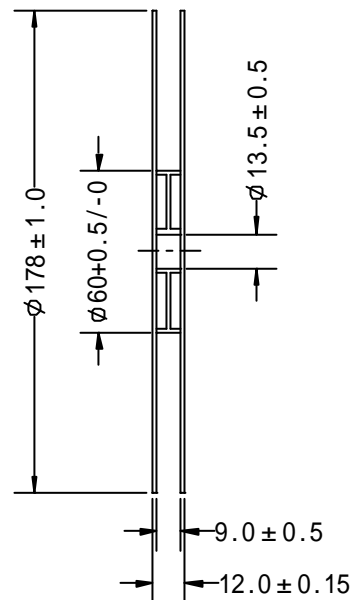
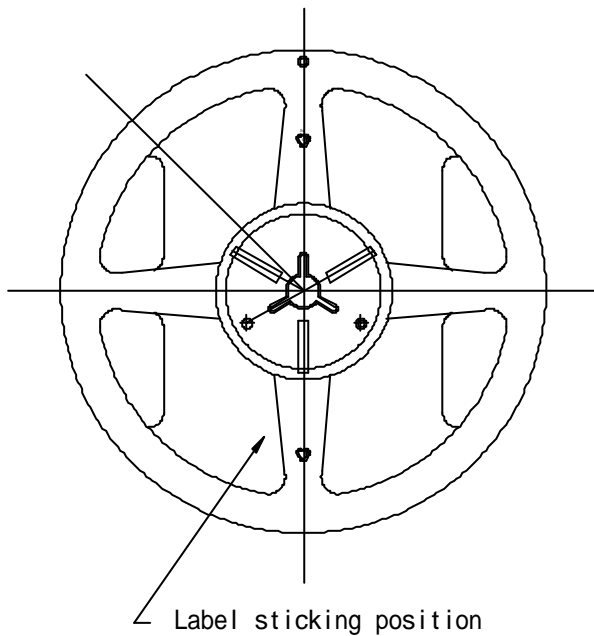
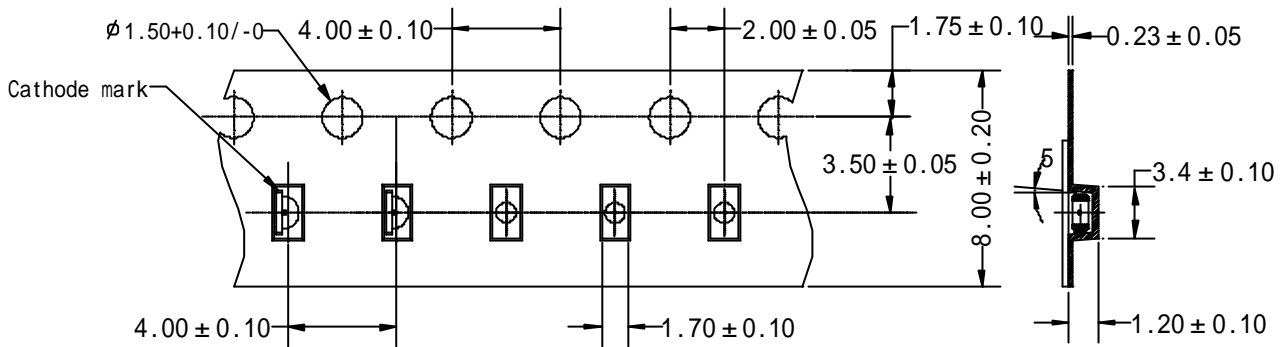
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■ **Tape Specifications**

Unit : mm

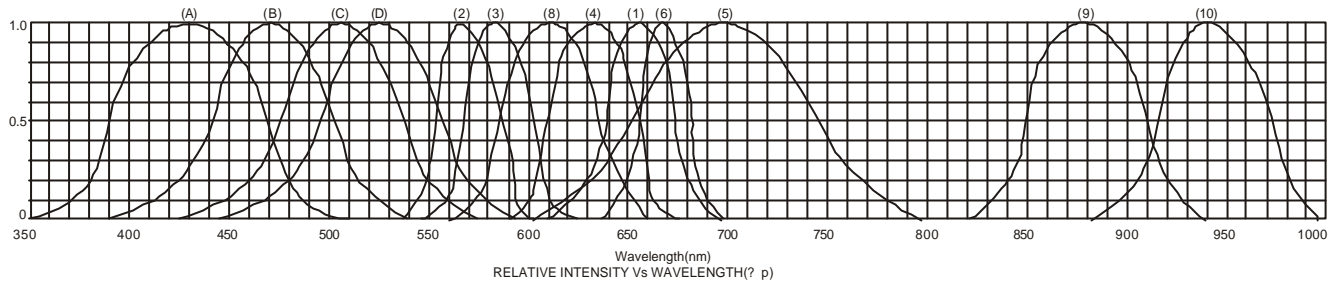
Tolerance : ± 0.1



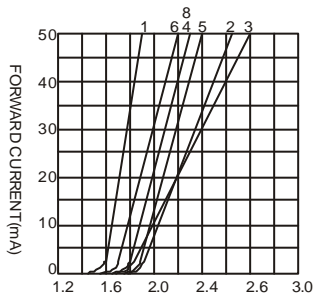
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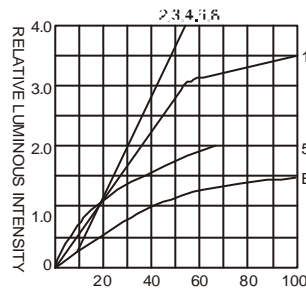
Typical electrical-optical characteristics curves:



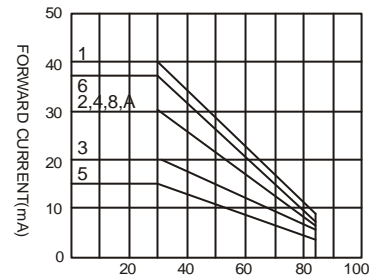
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



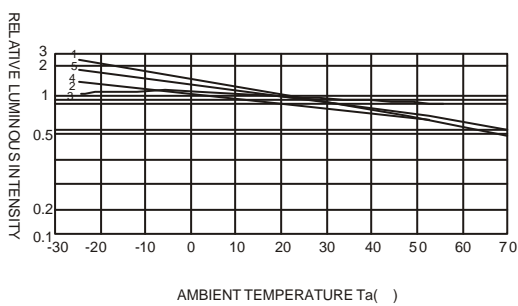
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



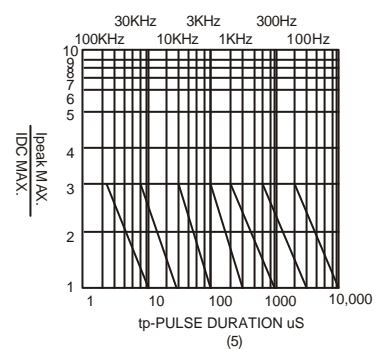
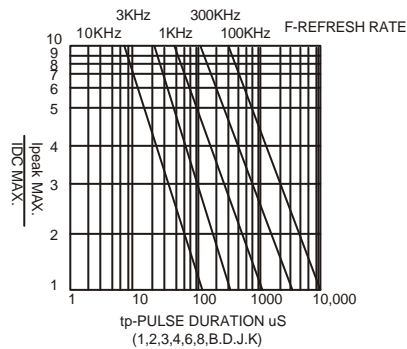
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta ()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta ()



NOTE:25 free air temperature unless otherwise specified

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■ **Packing and weighting**

