

SMD LED LAMP

BL-LS3216B0E1

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 _P (nm)						
					Typ	Max	Min.	Typ.	
BL-LS3216B0E1HC	Red	GaP	700	Water Clear	2.2	2.7	0.3	2.1	30
BL-LS3216B0E1SRC	Super Red	AlGaAs	660		1.85	2.30	20	75	
BL-LS3216B0E1LRC	Super Red	AlGaAs	660		1.85	2.30	45	110	
BL-LS3216B0E1URC	Ultra Red	AlGaAs	660		1.95	2.50	120	200	
BL-LS3216B0E1EC	Red	GaAsP	640		2.10	2.70	5	11	
BL-LS3216B0E1YC	Yellow	GaAsP	583		2.15	2.70	4	16	
BL-LS3216B0E1GC	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 _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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	Emitted Color	Material	λ _P (nm)						
					Typ	Max	Min.	Typ.	
BL-LS3216B0E1UDR	Ultra Red	AlGaAs	655	Water Clear	2.10	2.50	100	220	30
BL-LS3216B0E1UHR	Ultra Red	AlGaAs	645		2.10	2.60	120	300	
BL-LS3216B0E1UEC	Ultra Red	AlGaAs	630		2.10	2.50	150	330	
BL-LS3216B0E1UHD	Ultra Red	AlGaAs	618		2.10	2.60	250	580	
BL-LS3216B0E1UYO	Ultra Amber	AlGaInP	610		2.10	2.60	200	370	
BL-LS3216B0E1UYC	Ultra Yellow	AlGaInP	593		2.10	2.60	120	270	
BL-LS3216B0E1UGC	Ultra Green	AlGaInP	575		2.20	2.70	60	130	
BL-LS3216B0E1PGC	Ultra Pure Green	InGaN	525		3.50	4.20	100	280	
BL-LS3216B0E1BGC	Ultra Bluish Green	InGaN	505		3.50	4.20	220	400	
BL-LS3216B0E1DNB	Blue	InGaN	470		3.50	4.20	30	90	
BL-LS3216B0E1UBC	Ultra Blue	InGaN	470		3.50	4.20	55	125	
BL-LS3216B0E1UWC	Ultra White	InGaN	/		3.50	4.20	200	400	

Absolute maximum ratings (Ta=25°C)

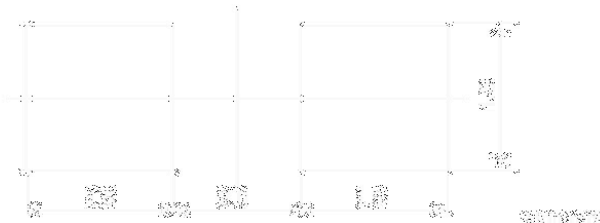
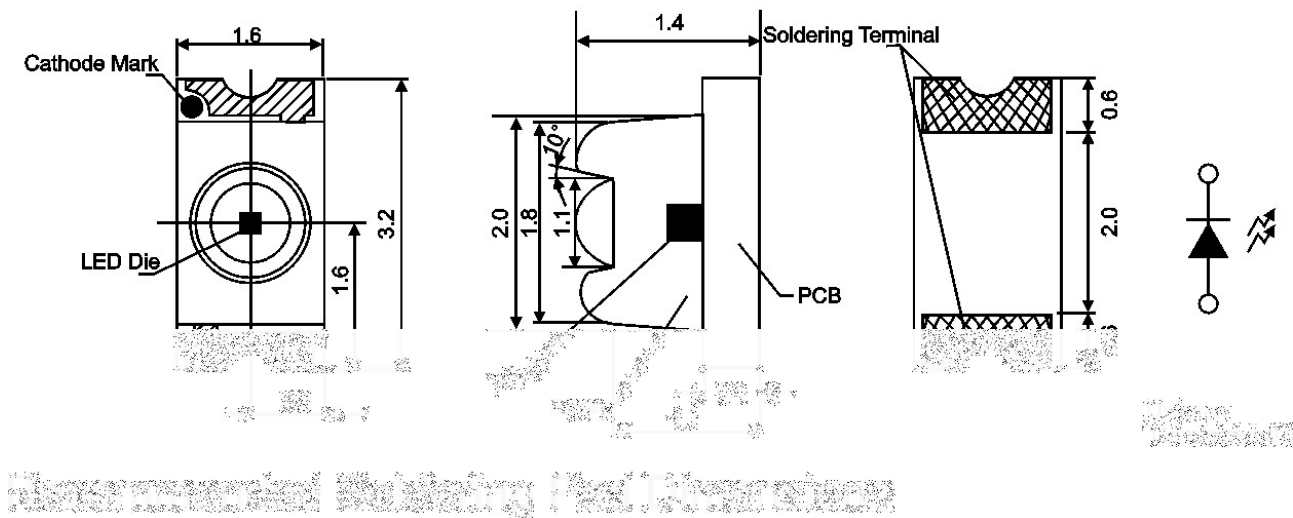
Parameter	UDR	UHR	UE	UHD	UYO	UY	UG	PG	BG	DNB	UB	UW	Unit
Forward Current I _F	30	30	30	30	30	30	30	30	30	30	30	30	mA
Power Dissipation P _d	78	78	78	78	78	78	78	78	78	78	78	78	mW
Reverse Voltage V _R	5	5	5	5	5	5	5	5	5	5	5	5	V
Peak Forward Current I _{PF} (Duty 1/10 @1KHZ)	100	100	100	100	100	100	100	100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

BL-LS3216B0E1 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.

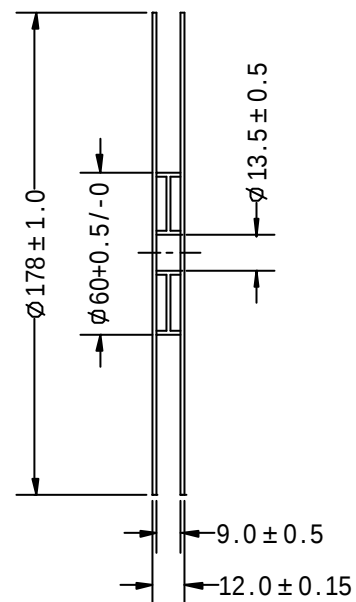
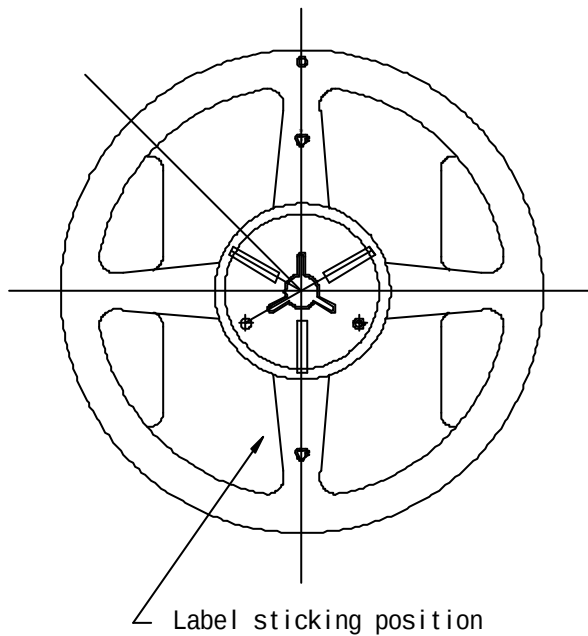
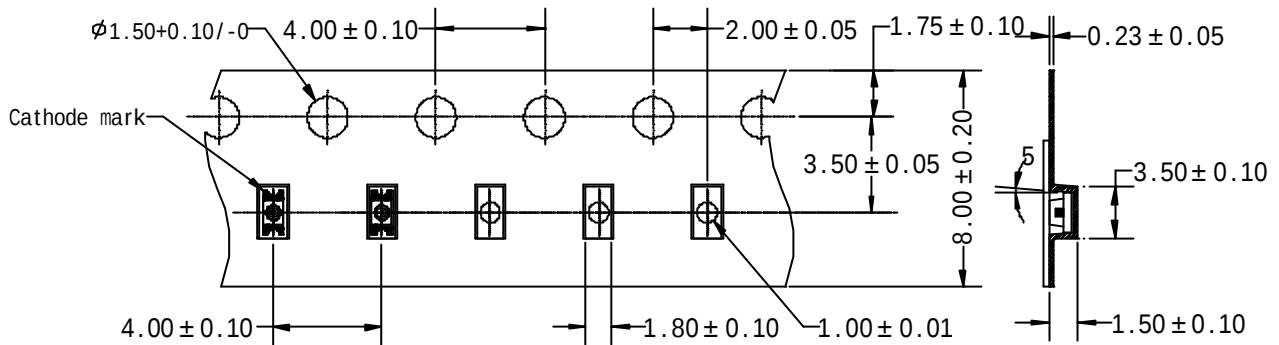
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■ Tape Specifications

Unit : mm

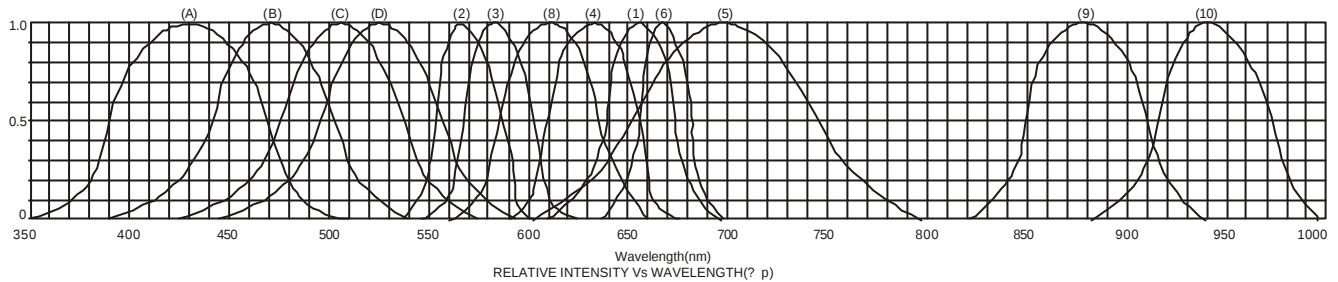
Tolerance : ± 0.1



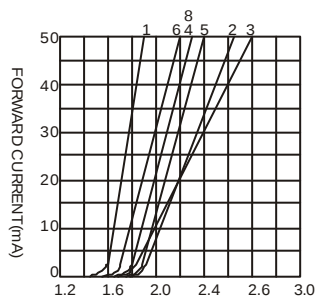
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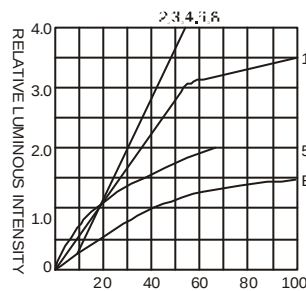
Typical electrical-optical characteristics curves:



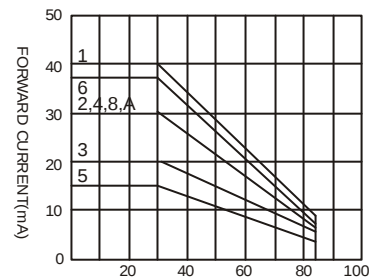
- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (9) - GaAlAs 880nm |
| (2) - GaP 570nm/Yellow Green | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow | (A) - GaN/SiC 430nm/Blue |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue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



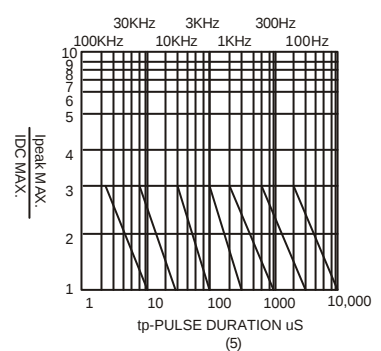
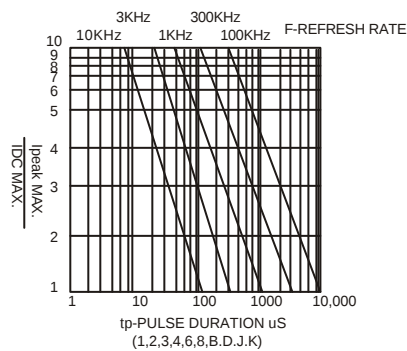
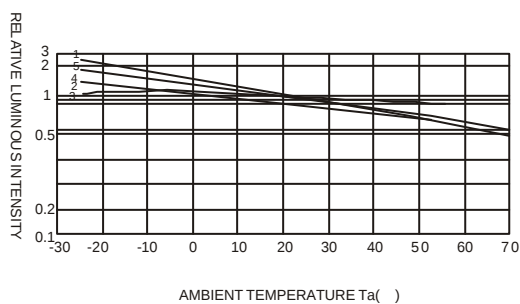
FORWARD CURRENT VS. FORWARD VOLTAGE



RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE



NOTE: 25 °C free air temperature unless otherwise specified

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■ Packing and weighting

