

SMD LED LAMP, Right Angle SMD

BL-LS1806A0E1

Features:

- 1.8x1.5x0.6mm SMD, Right Angle SMD
- Mono-color type
- Compatible with automatic placement equipment
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 4KPCS/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-LS1806A0E1UHRC	Ultra Red	AlGaAs	640	Water Clear	2.10	2.50	4000	8000	25
BL-LS1806A0E1UEC	Ultra Red	AlGaAs	630		2.10	2.50	1600	2300	
BL-LS1806A0E1UYO	Ultra Amber	AlGaInP	610		2.10	2.60	1600	2200	
BL-LS1806A0E1UYC	Ultra Yellow	AlGaInP	593		2.10	2.60	1600	2300	
BL-LS1806A0E1UGC	Ultra Green	AlGaInP	575		2.20	2.70	350	1800	
BL-LS1806A0E1PGC	Ultra Pure Green	InGaN	525		3.10	4.20	2000	3500	
BL-LS1806A0E1BGC	Ultra Bluish Green	InGaN	505		3.10	4.20	1000	2000	
BL-LS1806A0E1UBC	Ultra Blue	InGaN	465		3.10	4.20	1600	2200	
BL-LS1806A0E1UWC	Ultra White	InGaN	/		3.10	4.20	1500	3500	

■ Absolute maximum ratings (Ta=25°C)

Parameter	UHR	UE	UYO	UY	UG	PG	BG	UB	UW	Unit
Forward Current I _F	30	30	30	30	30	30	30	30	30	mA
Power Dissipation P _d	78	78	78	78	78	78	78	78	78	mW
Reverse Voltage V _R	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	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

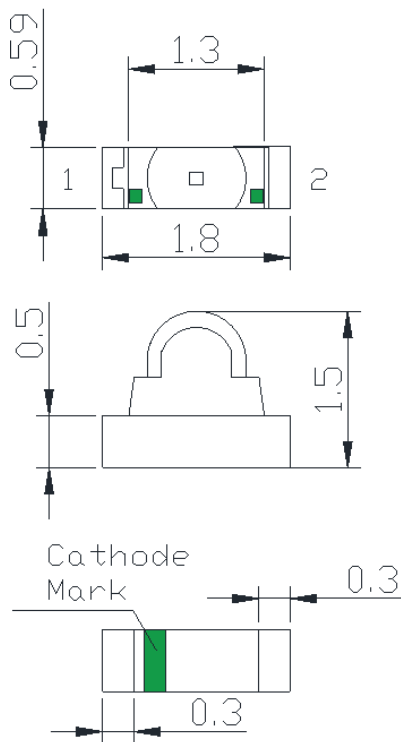
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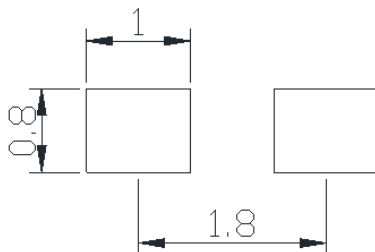
■ Package configuration & Internal circuit diagram

BL-L1806 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.

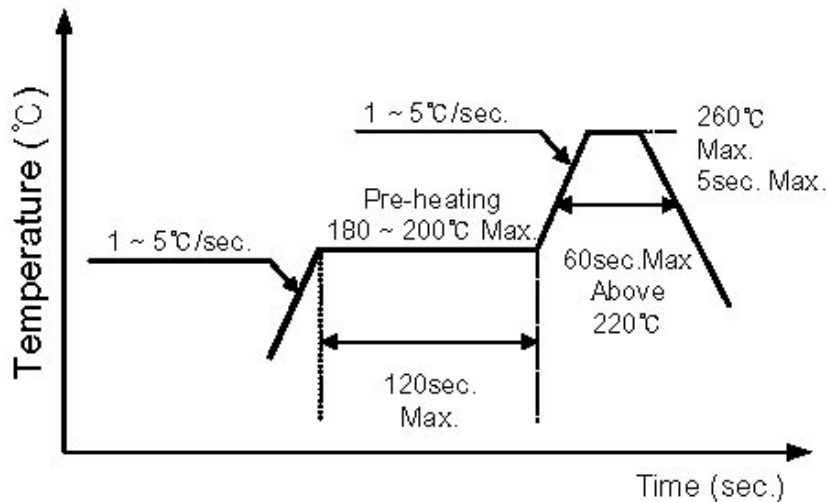
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■ SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times
and cooling process to normal temperature is required
between first and second soldering process

■ Lead-free Solder



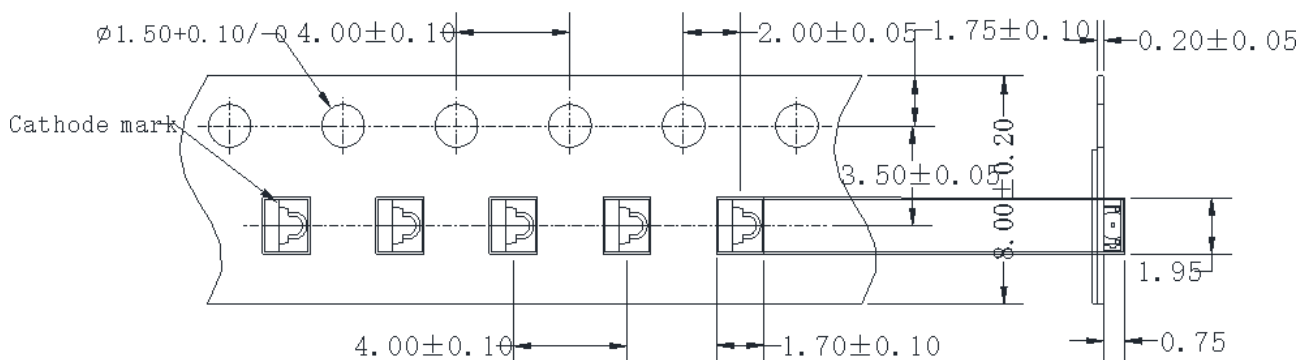
■ Tape Specifications

(Units:mm)

Tape Specifications

Unit: mm

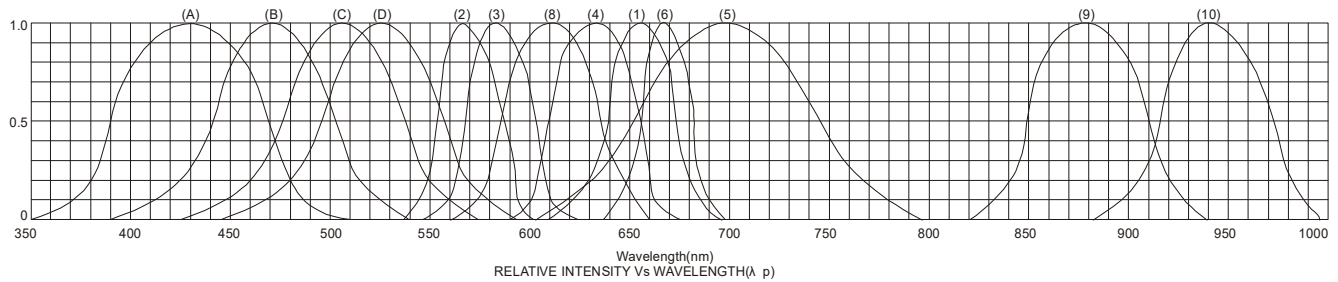
Tolerance: ± 0.1



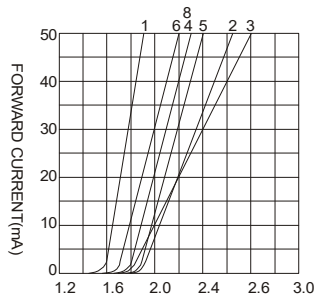
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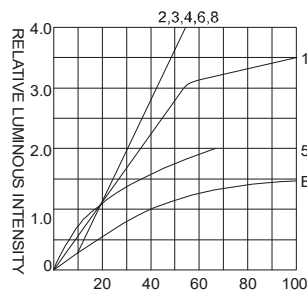
Typical electrical-optical characteristics curves:



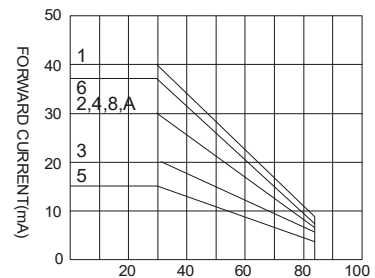
- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (9) - GaAlAs 880nm |
| (2) - GaP 570nm/Yellow Green | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow | (A) - GaN/SiC 430nm/Blue |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue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



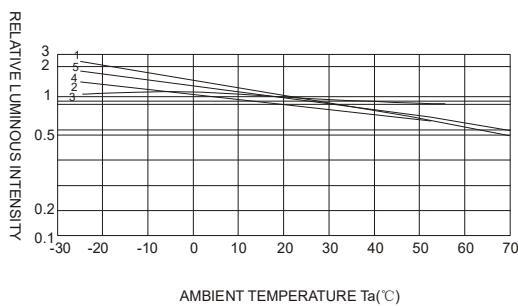
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



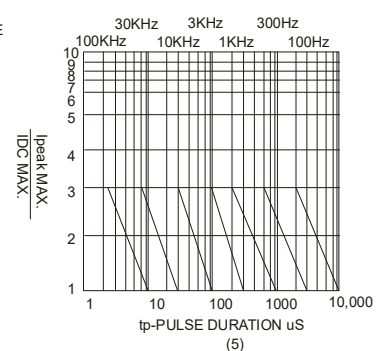
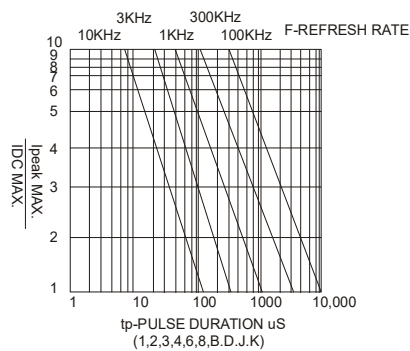
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta(°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(°C)



NOTE: 25°C free air temperature unless otherwise specified

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■ Packing and weighting

