SMD LED LAMP, BI-COLOR

BL-LS1311xx

Features:

- Ø 3.5mmx2.8mm SMD, 1.9mm THICKNESS PLCC4 package
- Ø BI-COLOR TYPE
- Ø Compatible with automatic placement equipment
- Ø WIDE VIEWING ANGLE.
- Ø IDEAL FOR BACKLIGHT AND INDICATOR.
- Ø PACKAGE: 2KPCS/REEL
- Ø RoHs Compliance

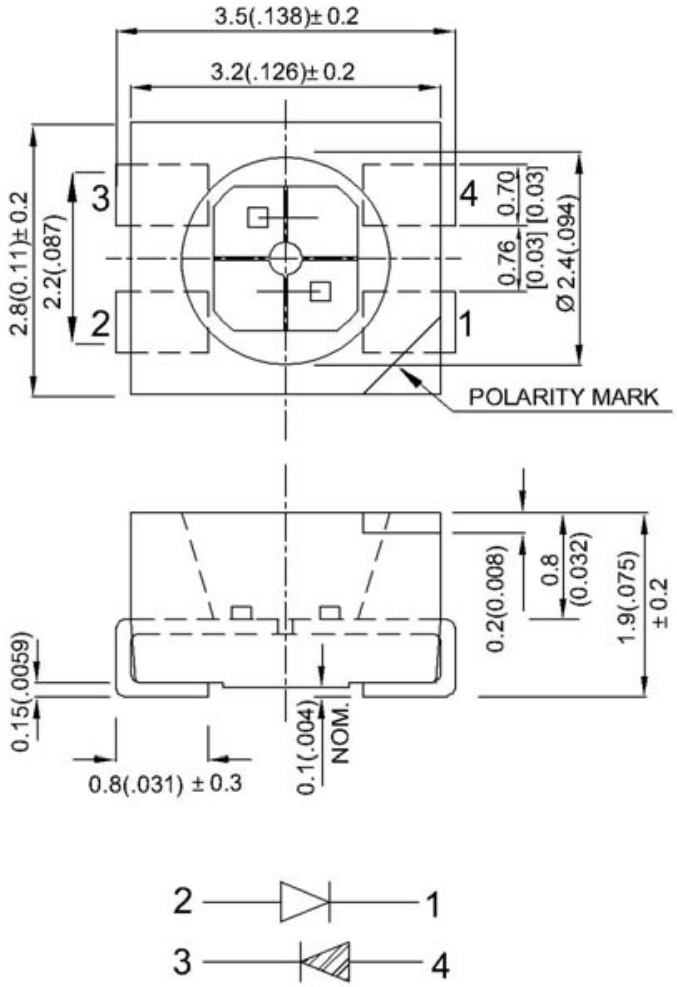
Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2¦È1/2 (deg)
	Emitted Color	Material	?P (nm)		Typ	Max	Min.	Typ.	
BL-LS1311EGC	Orange	GaAsP	640	Water Clear	2.10	2.60	50	80	120
	Green	GaP	568		2.30	2.70	28	50	
BL-LS1311UYUGC	Ultra Yellow	AlInGaP	590		2.10	2.60	50	120	
	Ultra Green	AlInGaP	575		2.20	2.70	50	80	
BL-LS1311UEUGC	Ultra Orange	AlInGaP	623		2.10	2.60	110	180	
	Ultra Green	AlInGaP	575		2.20	2.70	50	80	

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

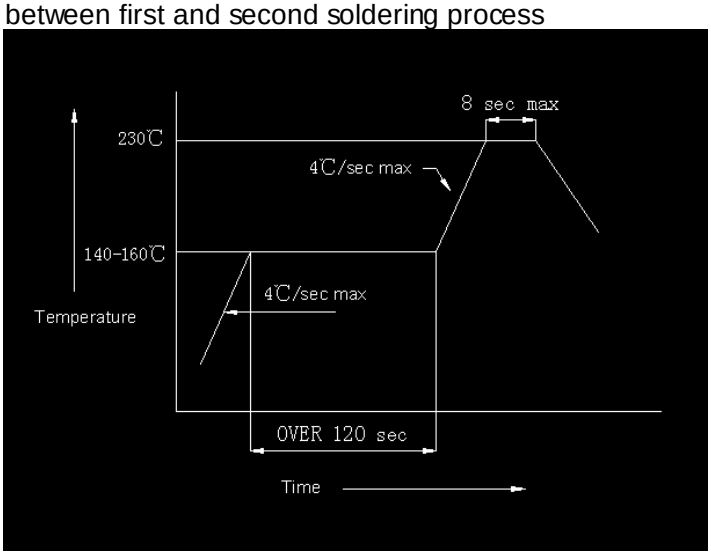


Notes:
1. All dimensions are in millimeters (inches)
2. Tolerance is ±0.25(0.01")unless otherwise noted.
3. Specifications are subject to change without notice.

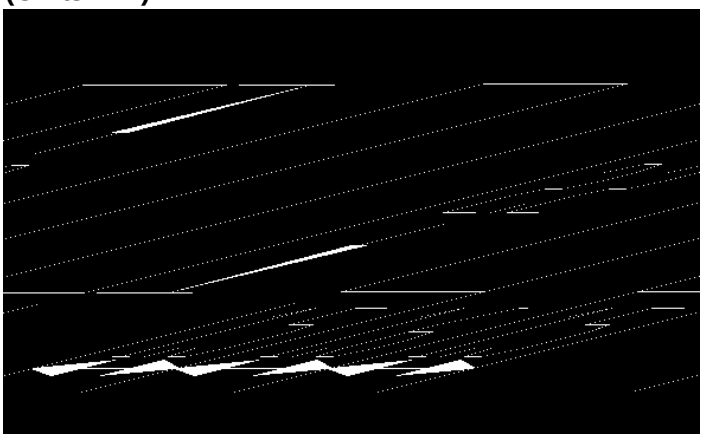
Tape Specifications

Smt Reflow Solding Instructions

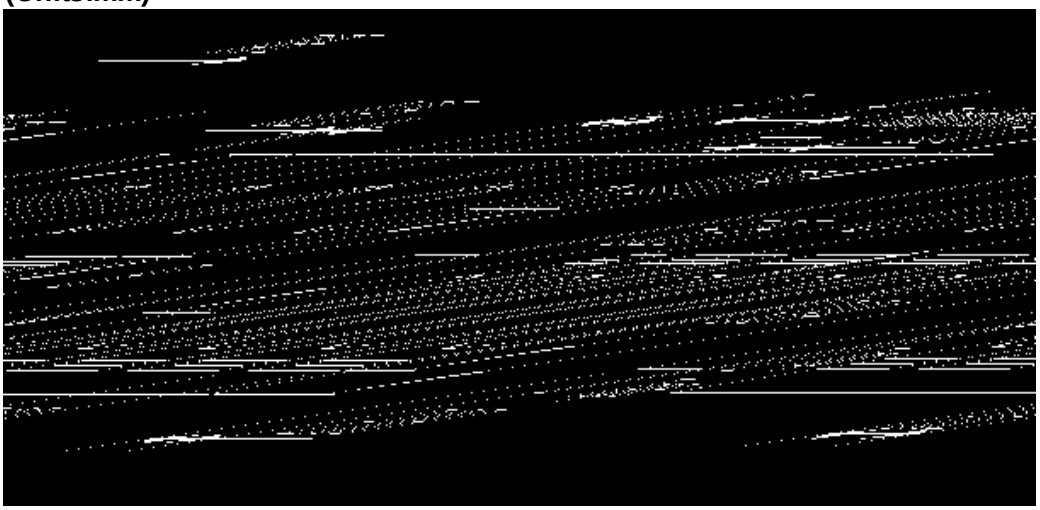
Number of reflow process shall be less than 2 times and cooling process to normai temperature is required between first and second soldering process



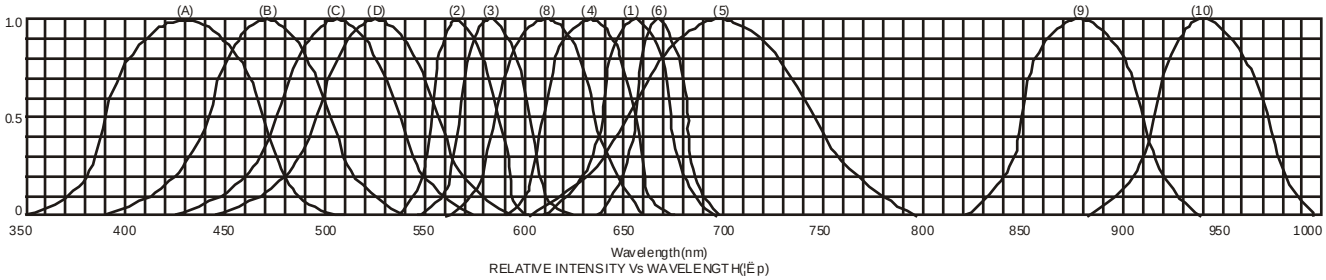
Recommended Soldering Pattern (Units:mm)



Tape Specifications (Units:mm)

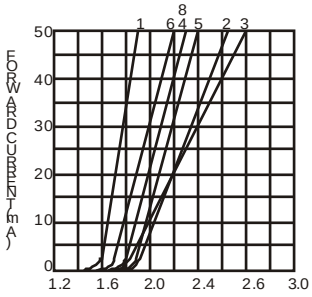


Typical electrical-optical characteristics curves:

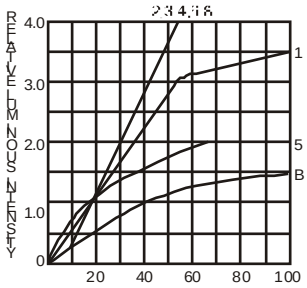


RELATIVE INTENSITY Vs WAVELENGTH(λp)

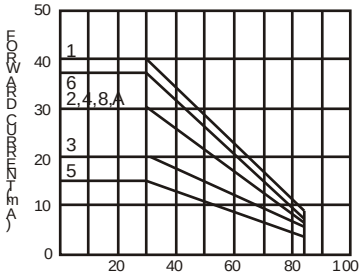
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



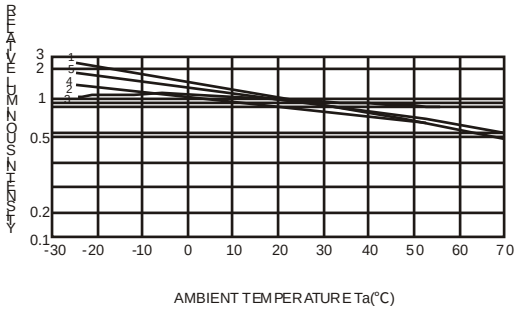
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE

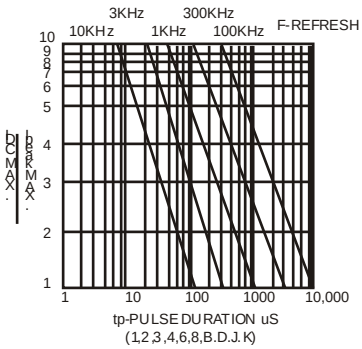


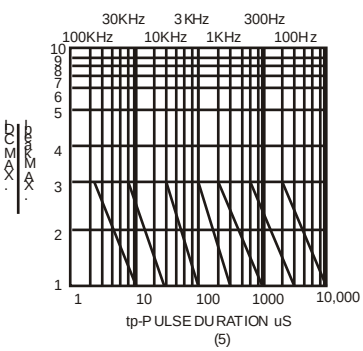
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



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







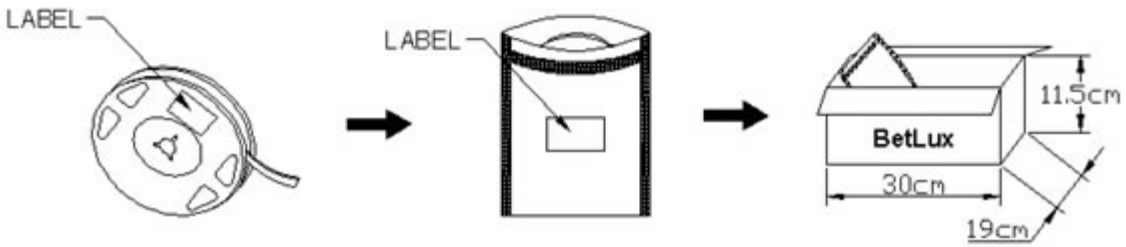
NOTE:25°C free air temperature unless otherwise specified

Packing and weighting

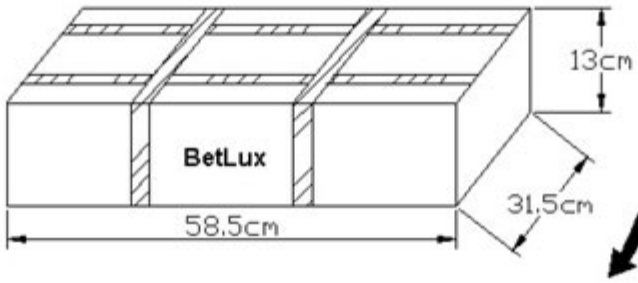
2000pcs/Reel

1 Reel/Bag

Maximum 10 Bags/Inner Box



3 Inner Box/Box



9 Inner Box/Box