

SMD LED LAMP, BI-COLOR

BL-LS3528F0S1

Features:

- 3.5mmx2.8mm SMD, 3.5mm THICKNESS PLCC4 package
- Mono-color type, Ultra brightness, with 1 chips
- Compatible with automatic placement equipment
- WITH DOME LENSE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 2KPCS/REEL
- RoHs Compliance



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

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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	λP (nm)						
					Typ	Max	Min.	Typ.	
BL-LS3528F0S1URC	Ultra Red	AlGaAs	660	Water Clear	1.85	2.20	1500	2000	60
BL-LS3528F0S1UEC	Ultra Red	AlGaAs	630		2.10	2.50	3000	5000	
BL-LS3528F0S1UYO	Ultra Amber	AlGaInP	610		2.10	2.60	3000	5000	
BL-LS3528F0S1UYC	Ultra Yellow	AlGaInP	593		2.10	2.60	3000	5000	
BL-LS3528F0S1PGC	Ultra Pure Green	InGaN	525		3.10	4.20	6000	9000	
BL-LS3528F0S1BGC	Ultra Pure Green	InGaN	505		3.10	4.20	5000	8000	
BL-LS3528F0S1UBC	Ultra Blue	InGaN	470		3.10	4.20	6000	9000	
BL-LS3528F0S1UWC	Ultra White	InGaN	/		3.10	4.20	7000	10000	

■ Absolute maximum ratings (Ta=25°C)

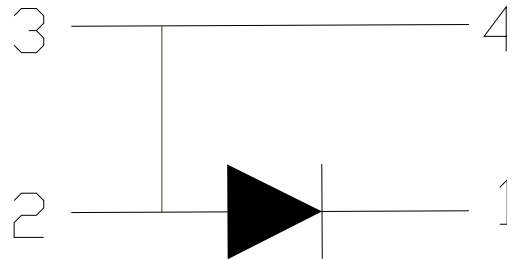
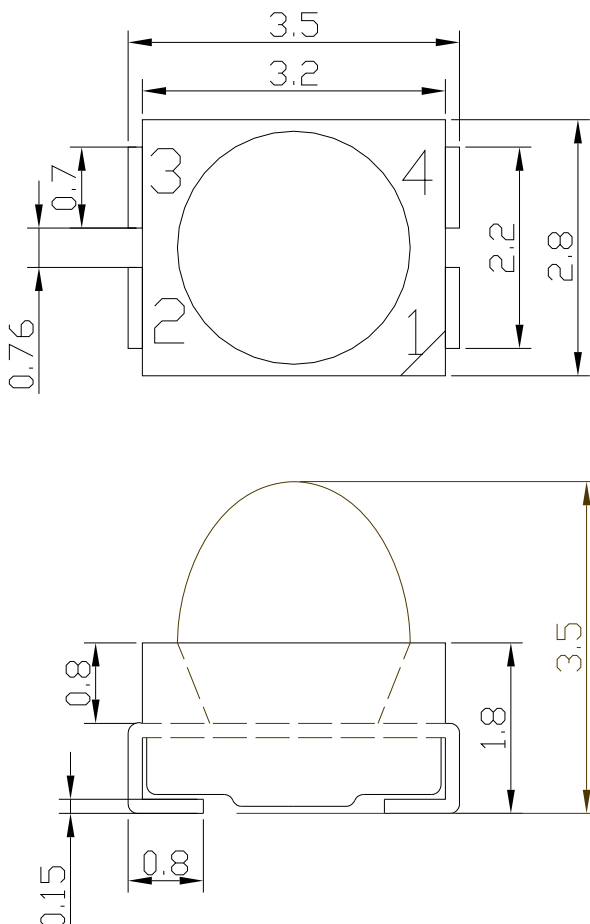
Parameter	UR	UE	UYO	UY	BG	PG	UB	UW	Unit
Forward Current I_F	70	70	70	70	70	70	70	70	mA
Power Dissipation P_d	78	78	78	78	78	78	78	78	mW
Reverse Voltage V_R	5	5	5	5	5	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	200	200	200	200	200	200	200	200	mA
Operation Temperature T_{OPR}	-20 to +80								°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

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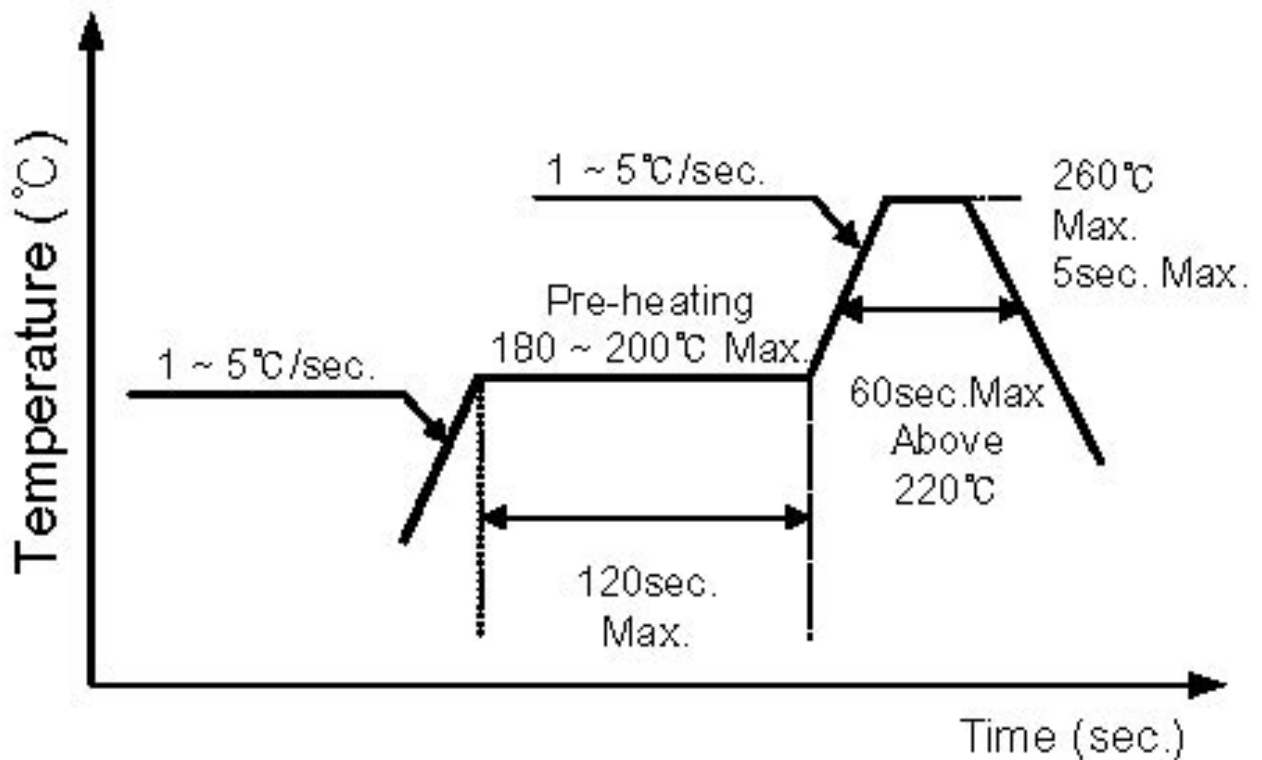


Notes:

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

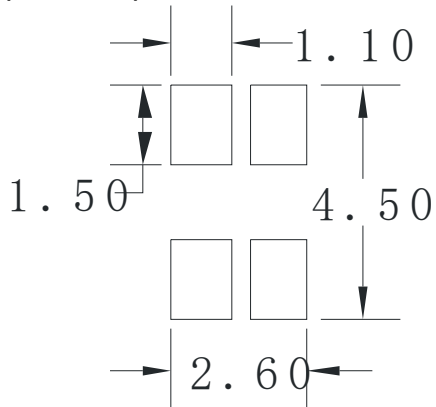
■ Lead-free Solder

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■ Recommended Soldering Pattern

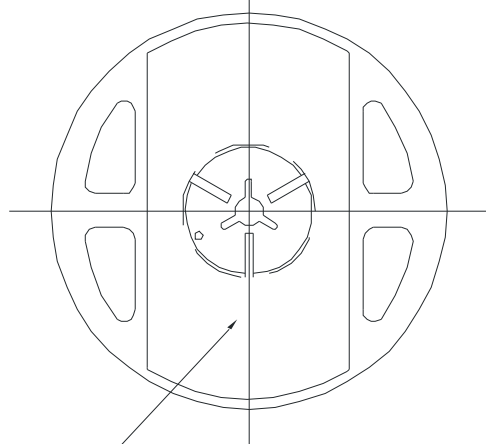
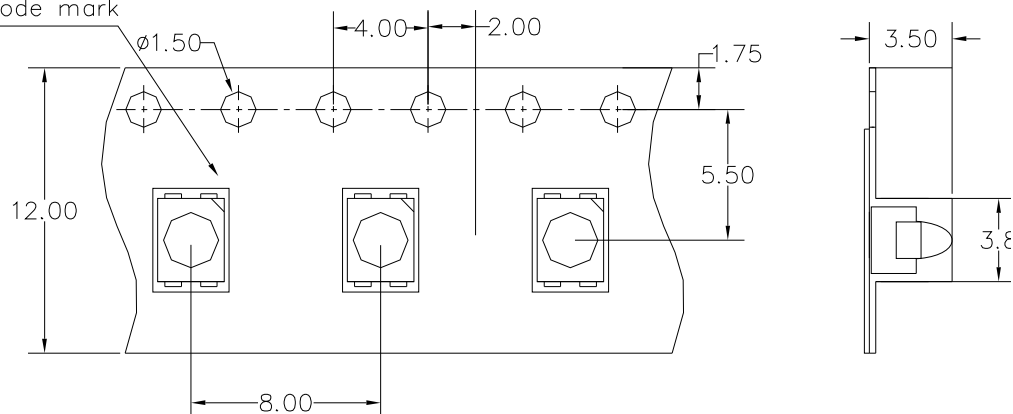
(Unit: mm)



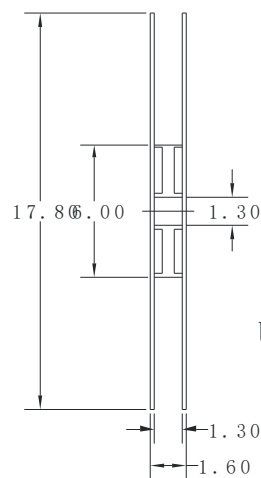
■ Tape Specifications

(Unit: mm)

Cathode mark



Label sticking position

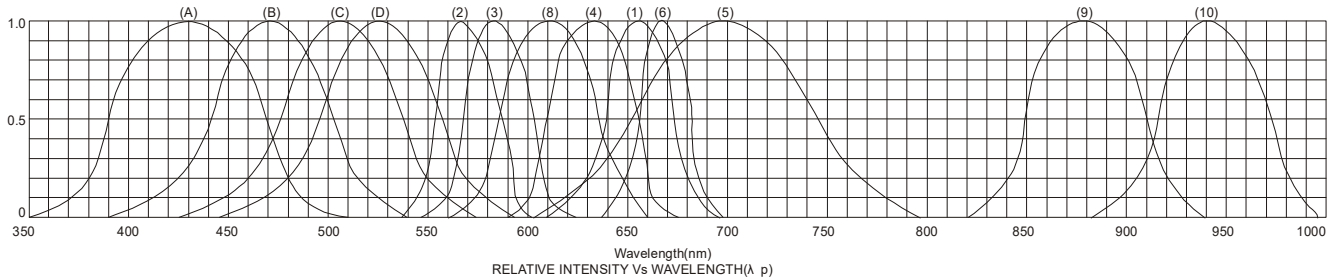


Unit: cm

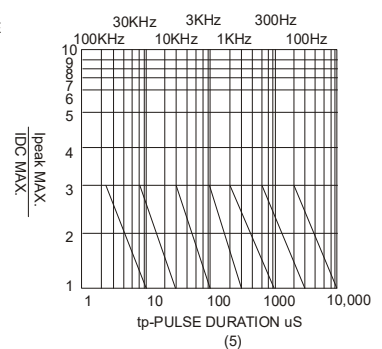
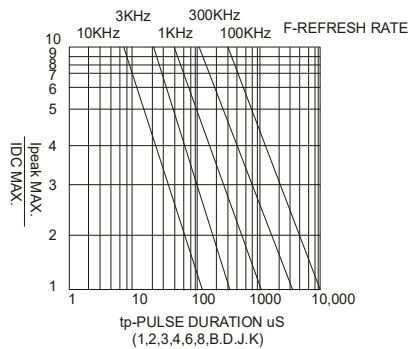
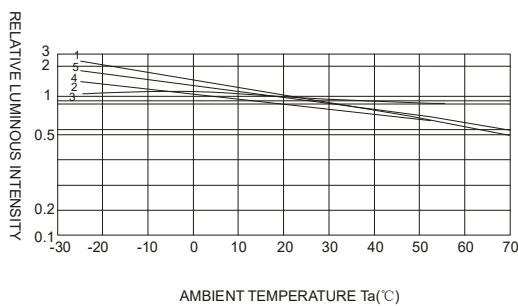
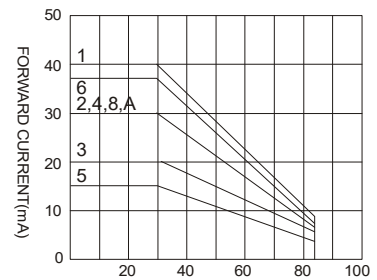
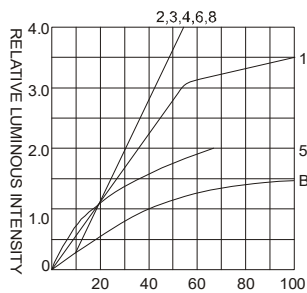
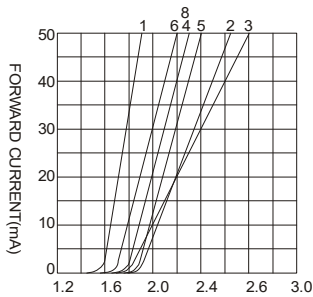
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Typical electrical-optical characteristics curves:



- | | |
|---|--------------------------------------|
| (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 | |



NOTE:25°C free air temperature unless otherwise specified

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■ Packing and weighting

