

SMD LED LAMP

BL-LS2810A0S1

Features:

- 2.8mmx1.0mm SMD, 1.2mm THICKNESS side view
- Mono-color type, Ultra brightness
- Compatible with automatic placement equipment
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 2KPCS/REEL
- RoHs Compliance



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

Electrical-Optical Characteristics (Ta=25°C) (Foot Candles at 20mm)									
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-LS2810A0S1UEC	Ultra Red	AlGaAs	630	Water Clear	2.0	2.4	200	220	120
BL-LS2810A0S1UYO	Ultra Amber	AlGaInP	610		2.0	2.4	200	220	
BL-LS2810A0S1UYC	Ultra Yellow	AlGaInP	593		2.0	2.4	200	220	
BL-LS2810A0S1UGC	Ultra Green	AlGaInP	575		2.0	2.4	50	60	
BL-LS2810A0S1PGC	Ultra Pure Green	InGaN	525		3.2	3.6	550	650	
BL-LS2810A0S1UBC	Ultra Blue	InGaN	470		3.2	3.6	200	220	
BL-LS2810A0S1UWC	Ultra White	InGaN	/		3.2	3.6	1300	1500	
BL-LS2810A0S1UW2C	Warm White	InGaN	/		3.2	3.6	1200	1400	

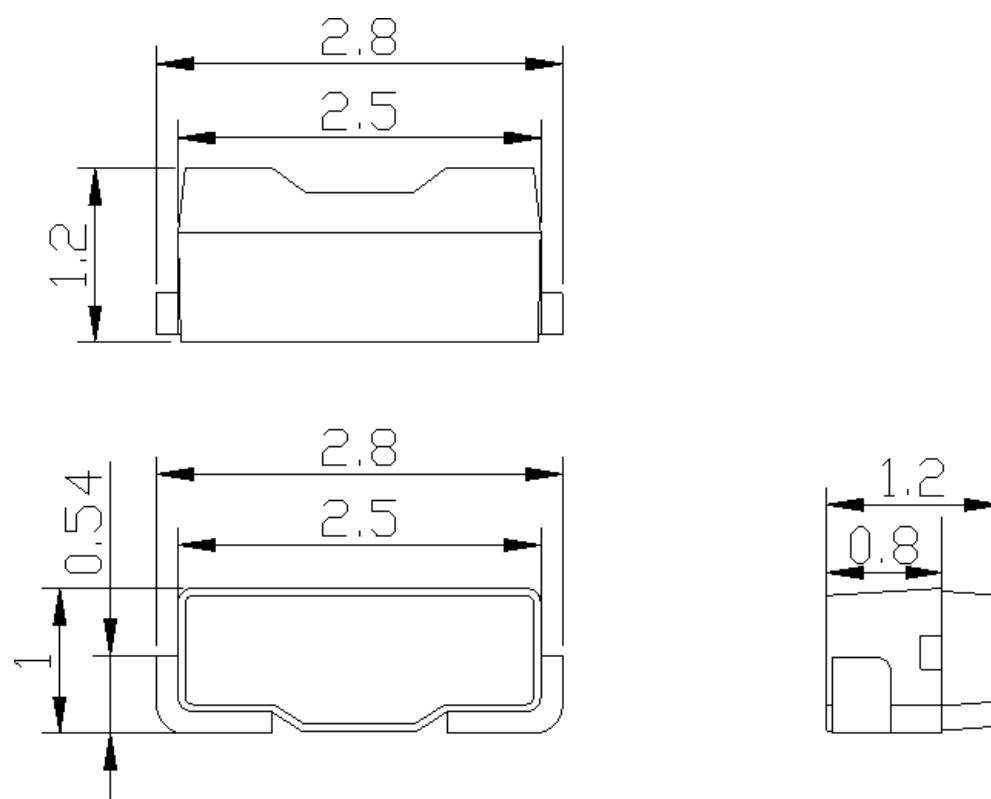
■ Absolute maximum ratings (Ta=25°C)

Parameter	UE	UYO	UY	UG	PG	UB	UW	Unit
Forward Current I_F	30	30	30	30	30	30	30	mA
Power Dissipation P_d	78	78	78	78	78	78	78	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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■ Package configuration & Internal circuit diagram



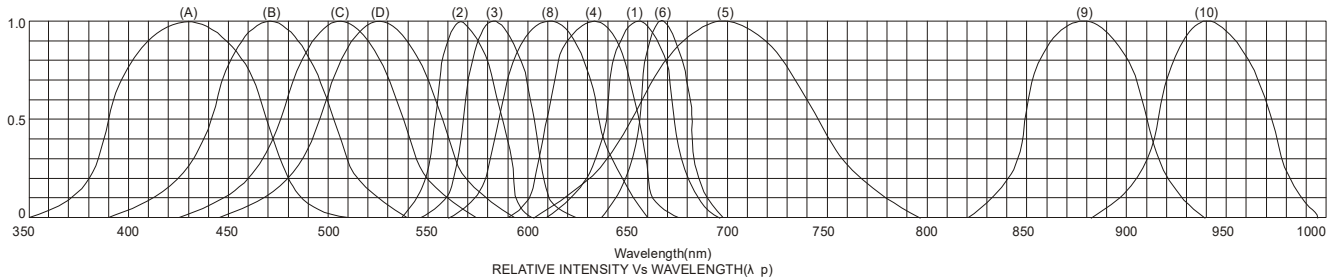
Notes:

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.

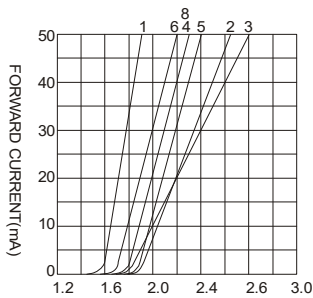
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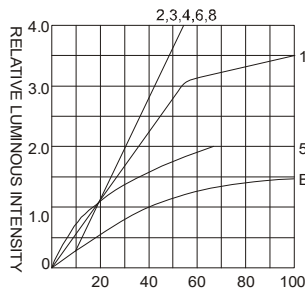
Typical electrical-optical characteristics curves:



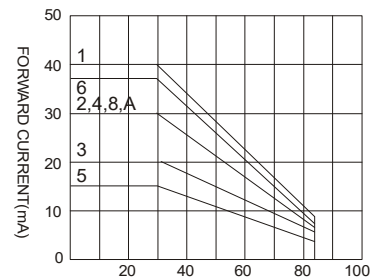
- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (9) - GaAlAs 880nm |
| (2) - GaP 570nm/Yellow Green | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow | (A) - GaN/SiC 430nm/Blue |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue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



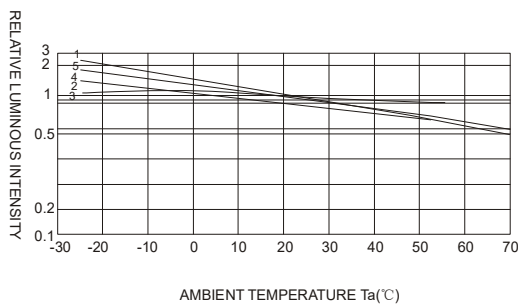
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



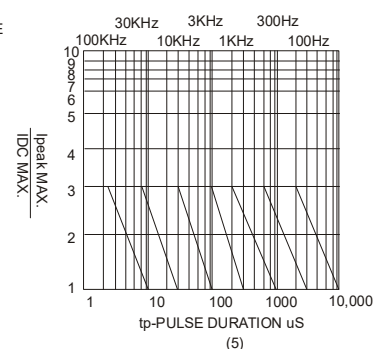
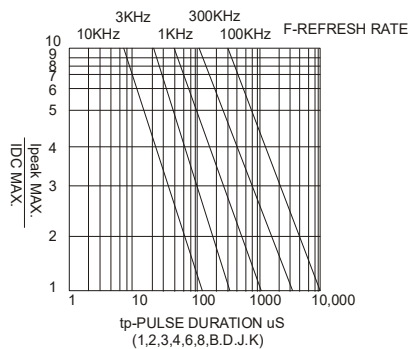
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



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

