SMD LED LAMP

BL-LS1608C0E1

Features:

- 1.6mmx0.8mm SMD, 0.4mm THICKNESS
- 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-LS1608C0E1HC	Red	GaP	700	Water Clear	2.2	2.7	0.2	0.8	130
BL-LS1608C0E1SRC	Super Red	AlGaAs	660		1.85	2.30	2	10	
BL-LS1608C0E1LRC	Super Red	AlGaAs	660		1.85	2.30	8	25	
BL-LS1608C0E1URC	Ultra Red	AlGaAs	660		1.95	2.50	15	40	
BL-LS1608C0E1EC	Red	GaAsP	640		2.10	2.70	1	5	
BL-LS1608C0E1YC	Yellow	GaAsP	583		2.15	2.70	1	5	
BL-LS1608C0E1GC	Green	GaP	568		2.30	2.70	5	12	

■ 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

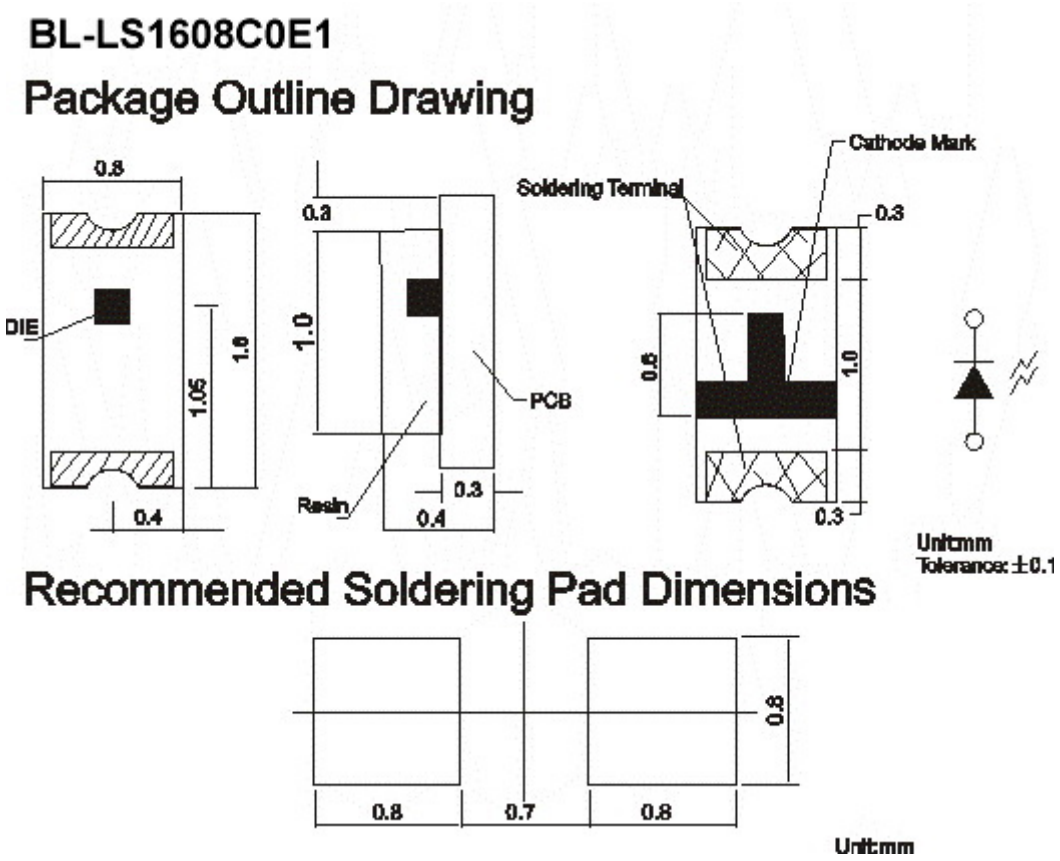
■ Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

Part Number	Chip			Lens Type	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd		Viewing Angle 2θ1/2 (deg)
	Emitted Color	Material	λP (nm)		Typ	Max	Min.	Typ.	
BL-LS1608C0E1UDR	Ultra Red	AlGaAs	655	Water Clear	2.10	2.50	17	55	130
BL-LS1608C0E1UHR	Ultra Red	AlGaAs	645		2.10	2.60	25	75	
BL-LS1608C0E1UEC	Ultra Red	AlGaAs	630		2.10	2.50	20	70	
BL-LS1608C0E1UHD	Ultra Red	AlGaAs	618		2.10	2.60	45	105	
BL-LS1608C0E1UYO	Ultra Amber	AlGaInP	610		2.10	2.60	25	75	
BL-LS1608C0E1UYC	Ultra Yellow	AlGaInP	593		2.10	2.60	20	65	
BL-LS1608C0E1UGC	Ultra Green	AlGaInP	575		2.20	2.70	10	35	
BL-LS1608C0E1PGC	Ultra Pure Green	InGaN	525		3.10	4.20	50	100	
BL-LS1608C0E1BGC	Ultra Bluish Green	InGaN	505		3.10	4.20	50	100	
BL-LS1608C0E1DNB	Blue	InGaN	470		3.10	4.20	10	30	
BL-LS1608C0E1UBC	Ultra Blue	InGaN	470		3.10	4.20	10	25	
BL-LS1608C0E1UWC	Ultra White	InGaN	/		3.10	4.20	100	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
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**

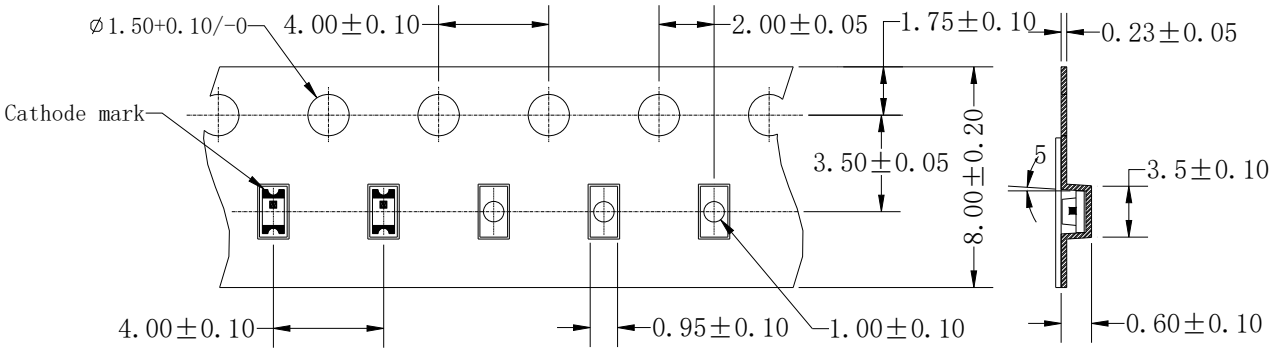


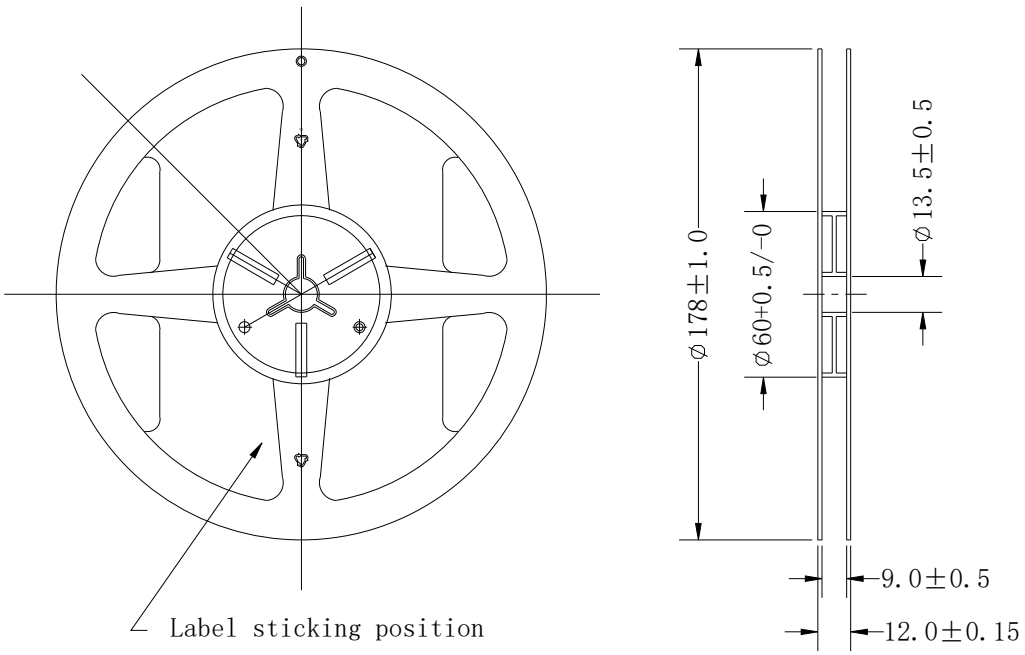
Notes:
1. All dimensions are in millimeters (inches)
2. Tolerance is ±0.25(0.01")unless otherwise noted.
3. Specifications are subject to change without notice.

■ Tape Specifications

Unit: mm

Tolerance: ±0.1





■ Packing and weighting