BL-LS0603XX



Features:

- 0 1.6mmx0.8mm SMD, 0.8mm THICKNESS
- Ø Mono-color type
- Ø Compatible with automatic placement equipment
- Ø WIDE VIEWING ANGLE.
- Ø IDEAL FOR BACKLIGHT AND INDICATOR.
- Ø PACKAGE: 4KPCS/REEL
- Ø RoHs Compliance





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

Part Number			_		Luminous				
	Emitted Color	Material	? _P f (nm)	Lens Type	_	vard ge(VF) it:V	Intensity (Iv) Unit:mcd		Niewi ng Angle 2¦∄/2
					Тур	Max	Min.	Тур.	(deg)
BL-LS0603HC	Red	GaP	700		2.2	2.7	0.3	1.0	
BL-LS0603SRC	Super Red	AlGa As	660		1.85	2.30	5	13	
BL-LS0603LRC	Super Red	AlGa As	660		1.85	2.30	10	28	
BL-LS0603URC	Ultra Red	AlGa As	660	Water Clear	1.95	2.50	20	45	130
BL-LS0603EC	Orange	GaAsP	640		2.10	2.70	1	6	
BL-LS0603YC	Vollow GaAs P		583		2.15	2.70	1	6	
BL-LS0603GC	Green	GaP	568		2.30	2.70	6	15	

Absolute maximum ratings (Ta=25°C)

Parameter	Н	SR	LR	UR	E	Υ	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									
Storage Temperature T _{STG}	-40 to +85									
Lead Soldering Temperature T _{SOL} Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)										

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

	(_		Luminous				
Part Number	Emitted Color	Material	? _P (n m)	Lens Type	Voltag	vard ge(VF) it:V	Intensity (Iv) Unit:mcd		Viewi ng Angle 2¦首/2
					Тур	Max	Min.	Тур.	(deg)
BL-LS0603UDR	Ultra Red	AlGa As	655		2.10	2.50	22	55	
BL-LS0603UHR	Ultra Red	AlGa As	645		2.10	2.60	30	80	
BL-LS0603UEC	Ultra Orange	AlGa As	630		2.10	2.50	30	80	
BL-LS0603UHD	Ultra Orange	AlGa As	618		2.10	2.60	50	110	130
BL-LS0603UYO	Ultra Amber	AlGaInP	610		2.10	2.60	30	80	
BL-LS0603UYC	Ultra Yellow	AlGaInP	593	Water	2.10	2.60	25	70	
BL-LS0603UGC	Ultra Green	AlGaInP	575	Clear	2.20	2.70	10	40	130
BL-LS0603PGC	Ultra Pure Green	InGaN	525		3.50	4.20	50	100	
BL-LS0603BGC	Ultra Bluish Green	InGaN	505	İ	3.50	4.20	50	110	
BL-LS0603DNB	Blue	InGaN	470		3.50	4.20	10	33	
BL-LS0603UBC	Ultra Blue	InGaN	470		3.50	4.20	10	30	
BL-LS0603UWC	Ultra White	InGaN	/		3.50	4.20	40	200	

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						

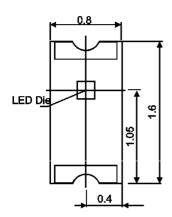
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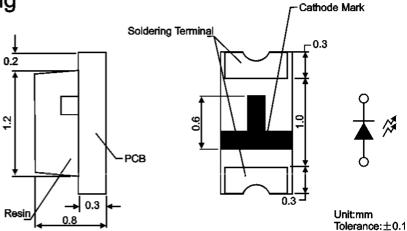


Package configuration & Internal circuit diagram

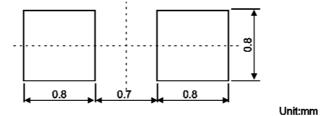
BL-LS0603 Series

Package Outline Drawing





Recommended Soldering Pad Dimensions



Notes

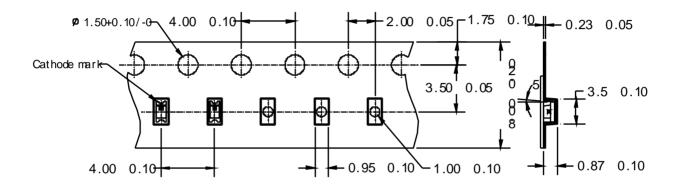
- 1. All dimensions are in millimeters (inches)
- 2. Tolerance is ±0.25(0.01")unless otherwise noted.
- 3. Specifications are subject to change without notice.

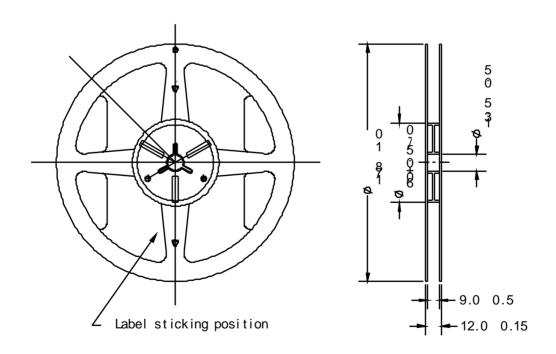


Tape Specifications

Unit: mm

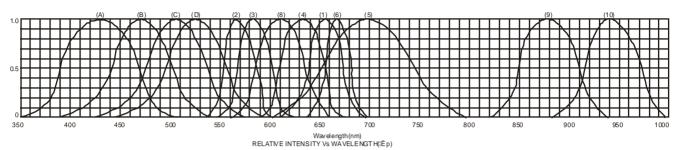
Tolerance: 0.1





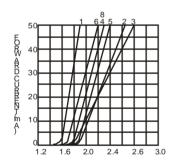


Typical electrical-optical characteristics curves:

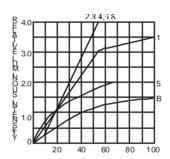


- (1) GaAsP/GaAs 655nm/Red
- (2) GaP 570nm/Yellow Green
- (3) GaAsP/GaP 585nm/Yellow
- (4) GaAsp/GaP 635nm/Orange & Hi-Eff Red
- (5) GaP 700nm/Bright Red
- (6) Ga AlAs/GaAs 660nm/Super Red
- (8) GaAsP/GaP610nm/Super Red

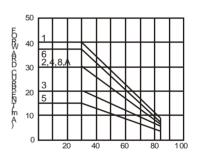
- (9) GaAlAs 880nm
- (10) GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) GaN/SiC 430nm/Blue
- (B) InGaN/SiC 470nm/Blue
- (C) InGaN/SiC 505nm/Ultra Green
- (D) InGaAl/SiC 525nm/Ultra Green



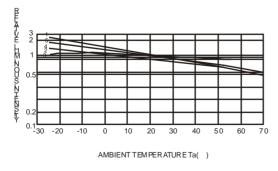
FORWARD VOLTAGE (Vf) FORWARD CURRENT VS. FORWARD VOLTAGE

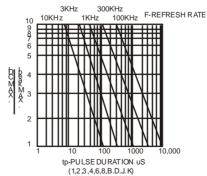


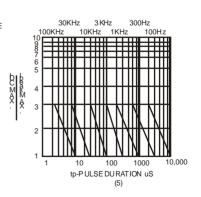
FORWARD CURRENT (mA) RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



AMBIENT TEMPERATURE Ta()
FORWARD CURRENT VS. AMBIENT
TEMPERATURE







NOTE:25 free air temperature unless otherwise specified

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Packing and weighting

