

LED NUMERIC DISPLAY, 1 DIGIT

BL-S400X-11

■ Features:

- 101.60mm (4.0") Single digit numeric display series
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C. Boards or sockets.
- I.C. Compatible.
- ROHS Compliance.



Super Bright

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

Part No		Chip			VF Unit:V		IV TYP.(mcd)
Common Cathode	Common Anode	Emitted Color	Material	λ_p (nm)	Typ	Max	
BL-S400A-11S-XX	BL-S400B-11S-XX	Hi Red	GaAlAs/GaAs,SH	660	1.85	2.20	75
BL-S400A-11D-XX	BL-S400B-11D-XX	Super Red	GaAlAs/GaAs,DH	660	1.85	2.20	132
BL-S400A-11UR-XX	BL-S400B-11UR-XX	Ultra Red	GaAlAs/GaAs,DDH	660	1.85	2.20	150
BL-S400A-11E-XX	BL-S400B-11E-XX	Orange	GaAsP/GaP	635	2.10	2.50	75
BL-S400A-11Y-XX	BL-S400B-11Y-XX	Yellow	GaAsP/GaP	585	2.10	2.50	75
BL-S400A-11G-XX	BL-S400B-11G-XX	Green	GaP/GaP	570	2.20	2.50	80

Ultra Bright

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

Part No		Chip			VF Unit:V		IV TYP.(mcd)
Common Cathode	Common Anode	Emitted Color	Material	λ_p (nm)	Typ	Max	
BL-S400A-11UHR-XX	BL-S400B-11UHR-XX	Ultra Red	AlGaInP	645	2.10	2.50	150
BL-S400A-11UE-XX	BL-S400B-11UE-XX	Ultra Orange	AlGaInP	630	2.10	2.50	80
BL-S400A-11YO-XX	BL-S400B-11YO-XX	Ultra Amber	AlGaInP	619	2.10	2.50	80
BL-S400A-11UY-XX	BL-S400B-11UY-XX	Ultra Yellow	AlGaInP	590	2.10	2.50	80
BL-S400A-11UG-XX	BL-S400B-11UG-XX	Ultra Green	AlGaInP	574	2.20	2.50	132
BL-S400A-11PG-XX	BL-S400B-11PG-XX	Ultra Pure Green	InGaIn	525	3.80	4.50	150
BL-S400A-11B-XX	BL-S400B-11B-XX	Ultra Blue	InGaIn	470	2.70	4.20	100
BL-S400A-11W-XX	BL-S400B-11W-XX	Ultra White	InGaIn	/	2.70	4.20	120

■ -XX: Surface / Lens color:

Number	0	1	2	3	4	5
Ref Surface Color	White	Black	Gray	Red	Green	
Epoxy Color	Water clear	White diffused	Red Diffused	Green Diffused	Yellow Diffused	

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Absolute maximum ratings (Ta=25℃)

Parameter		S	D	UR	E	Y	G	Unit
Forward Current I_F		25	25	25	25	25	30	mA
Power Dissipation P_d		60	60	60	60	60	65	mW
Reverse Voltage V_R		5	5	5	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)		150	150	150	150	150	150	mA
Operation Temperature T_{OPR}	-40 to +80							℃
Storage Temperature T_{STG}	-40 to +85							℃
Lead Soldering Temperature T_{SOL}	Max.260±5℃ for 3 sec Max. (1.6mm from the base of the epoxy bulb)							℃

■ Absolute maximum ratings (Ta=25℃)

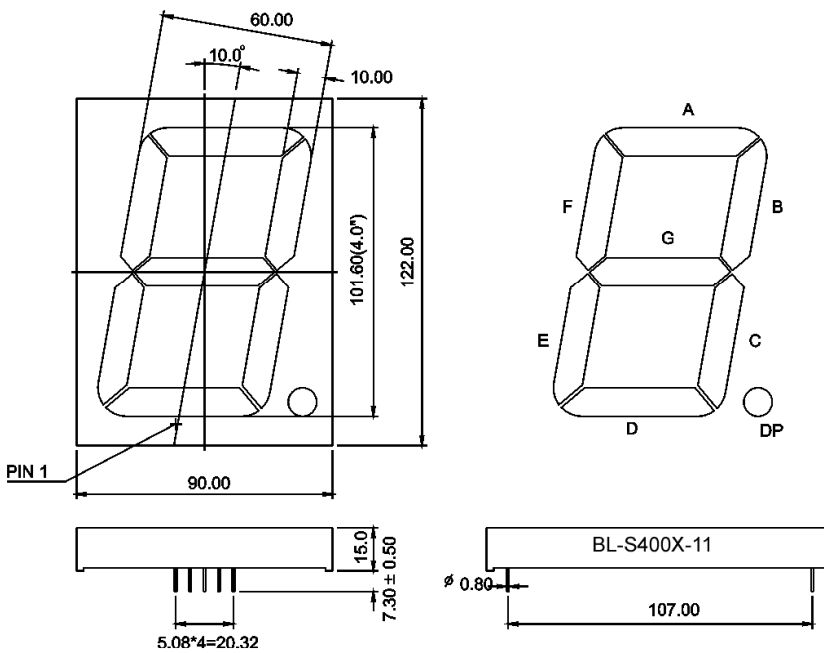
Parameter	UHR	UE	YO	UY	UG	PG	UB	UW	Unit
Forward Current I_F	30	30	30	30	30	30	30	30	mA
Power Dissipation P_d	75	65	65	65	75	110	120	120	mW
Reverse Voltage V_R	5	5	5	5	5	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	150	100	100	mA
Operation Temperature T_{OPR}	-40 to +80								℃
Storage Temperature T_{STG}	-40 to +85								℃
Lead Soldering Temperature T_{SOL}	Max.260±5℃ for 3 sec Max. (1.6mm from the base of the epoxy bulb)								℃

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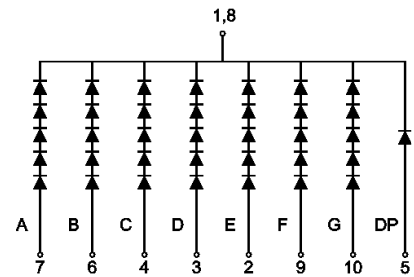
BL-S400X-11

■ Package configuration & Internal circuit diagram

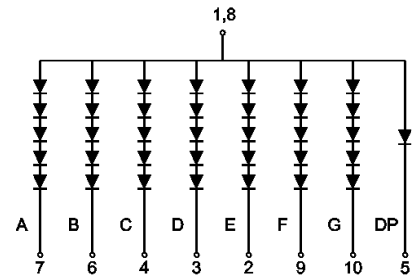
BL-S400X-11 Series



BL-S400A-11



BL-S400B-11



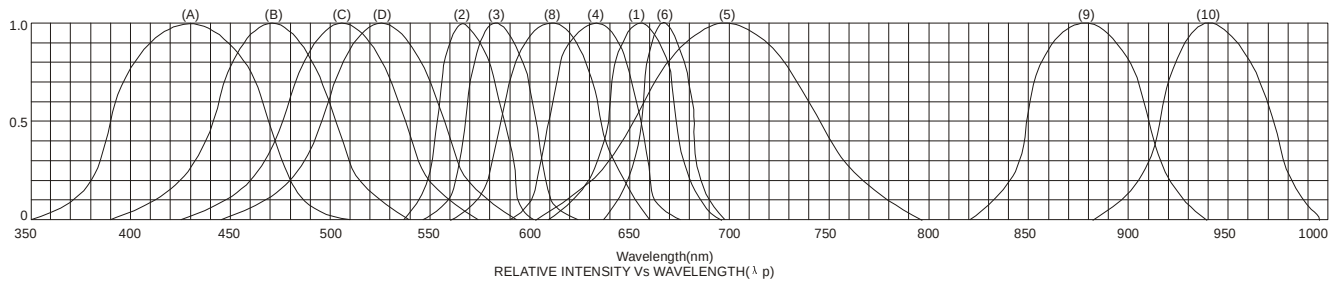
Notes:

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.

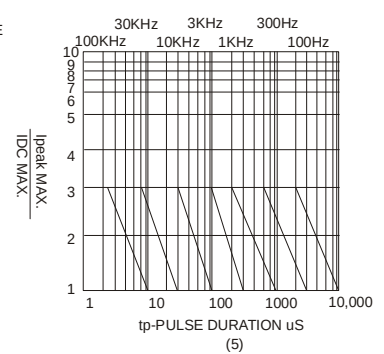
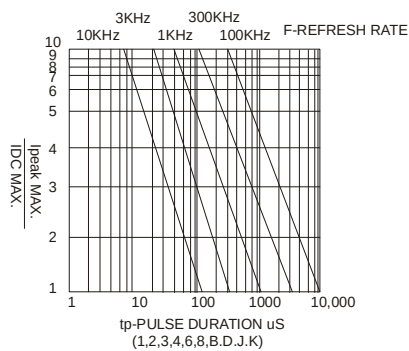
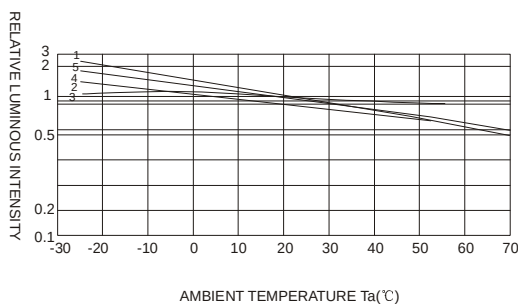
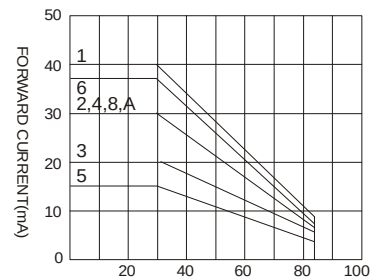
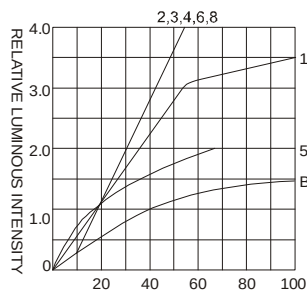
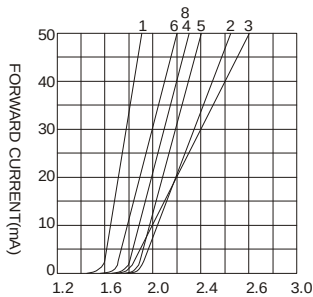
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Typical electrical-optical characteristics curves:



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



NOTE: 25°C free air temperature unless otherwise specified