BL-SE1200X-11

Features:

- Ø 312.0mm (12.0") numeric segment series, BIG SEGMENT DISPLAY
- Ø Low current operation.
- Ø Excellent character appearance.
- Ø Easy mounting on P.C. Boards or sockets.
- Ø I.C. Compatible.
- Ø ROHS Compliance.





Super Bright

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

Part No			VF Unit:V		lv		
Common Cathode	Common Anode	Emitte d Color	Material		Тур Мах		TYP.(mcd
BL-SE1200A-11S-XX	BL-SE1200B-11S-XX	Hi Red GaAl As/GaAs,SH		660	1.85	2.20	200
BL-SE1200A-11D-XX	BL-SE1200B-11D-XX	Super Red GaAl As/GaAs,DH		660	1.85	2.20	225
BL-SE1200A-11UR-X	BL-SE1200B-11UR-X X	Ultra Red	GaAl As/GaAs,DDH	660	1.85	2.20	250
BL-SE1200A-11E-XX	BL-SE1200B-11E-XX	Orange	GaAsP/GaP	635	2.10	2.50	200
BL-SE1200A-11Y-XX	BL-SE1200B-11Y-XX	Yellow	GaAsP/GaP	585	2.10	2.50	170
BL-SE1200A-11G-XX	BL-SE1200B-11G-XX	Green	GaP/GaP	570	2.20	2.50	210

Ultra Bright

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

Part	(lest co	V	/F	lv			
Common Cathode	ommon Cathode Common Anode		Emitted Material		Unit:V		TYP.(mcd
Common Camode Common Anode		Color	Waterial	(nm)	Тур	Max)
BL-SE1200A-11UHR-XX	BL-SE1200B-11UHR-X	Ultra Red	AlGalnP	645	2.10	2.50	250
	X						
BL-SE1200A-11UE-XX	BL-SE1200B-11UE-XX	Ultra Orange	AlGalnP	630	2.10	2.50	210
BL-SE1200A-11YO-XX	BL-SE1200B-11YO-XX	Ultra Amber	AlGalnP	619	2.10	2.50	210
BL-SE1200A-11UY-XX	BL-SE1200B-11UY-XX	Ultra Yellow	AlGaInP	590	2.10	2.50	210
BL-SE1200A-11UG-XX	BL-SE1200B-11UG-XX	Ultra Green	AlGaInP	574	2.20	2.50	225
BL-SE1200A-11PG-XX	BL-SE1200B-11PG-XX	Ultra Pure Green	InGaN	525	3.80	4.50	250
BL-SE1200A-11B-XX	BL-SE1200B-11B-XX	Ultra Blue	InGaN	470	2.70	4.20	230
BL-SE1200A-11W-XX	BL-SE1200B-11W-XX	Ultra White	InGaN	/	2.70	4.20	230

-XX: Surface / Lens color:

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

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BL-SE1200X-11

Absolute maximum ratings (Ta=25°C)

Absolute maximum ratings (1)	u-25 0,	1	1	1	1	i	1
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 Max.260±5°C for 3 sec Max. (1.6mm from the base of the epoxy bulb)					°C		

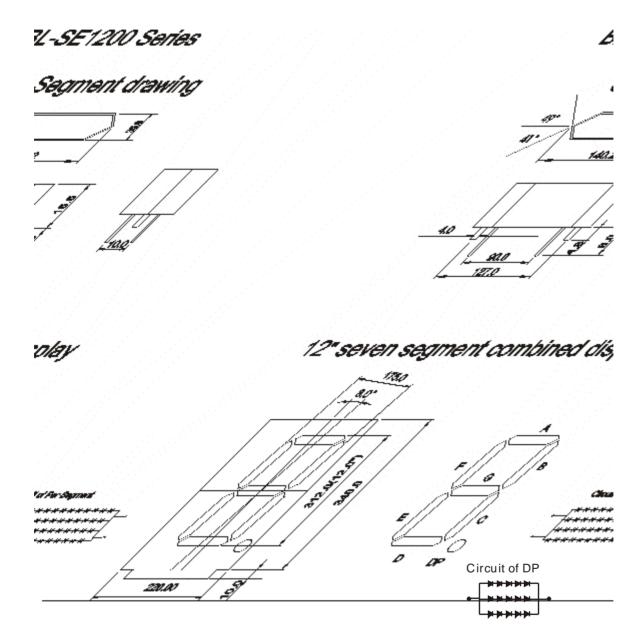
Absolute maximum ratings (Ta=25°C)

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								°C
Storage Temperature T _{STG}	-40 to +85								°C
Lead Soldering Temperature 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

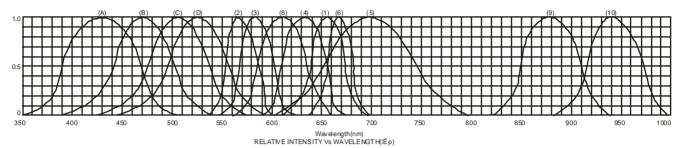


Notes:

- 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.

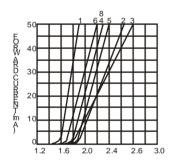


Typical electrical-optical characteristics curves:

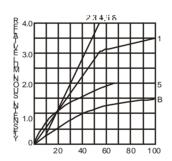


- (1) Ga As P/Ga As 655nm/Red
- (2) GaP 570nm/Yellow Green
- (3) Ga As P/Ga P 585nm/Yellow
- (4) GaAsp/GaP 635nm/Orange & Hi-Eff Red
- (5) GaP 700nm/Bright Red
- (6) Ga AlAs/GaAs 660nm/Super Red
- (8) GaAsP/GaP610nm/Super Red

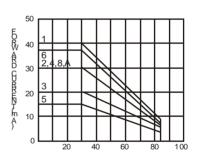
- (9) GaAlAs 880nm
- (10) GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) GaN/SiC 430nm/Blue
- (B) InGaN/SiC 470nm/Blue
- (C) InGaN/SiC 505nm/Ultra Green
- (D) InGaAl/SiC 525nm/Ultra Green



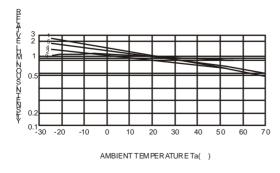
FORWARD VOLTAGE (Vf) FORWARD CURRENT VS. FORWARD VOLTAGE

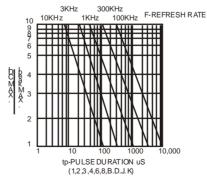


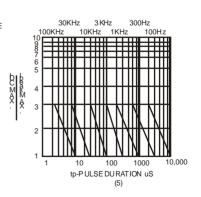
FORWARD CURRENT (mA) RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



AMBIENT TEMPERATURE Ta() FORWARD CURRENT VS. AMBIENT TEMPERATURE







NOTE:25 free air temperature unless otherwise specified

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Packing and weighting

