百流光电
BetLux Electronics

LED NUMERIC DISPLAY, 1 DIGIT

BL-S30X-13

Features:

- Ø 7.62mm (0.3") Single digit numeric display series
- 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		Chip			VF Unit:V		Iv
Common Cathode	Common Anode	Emitted Color	Material	λ_P (nm)	Typ	Max	TYP.(mcd)
BL-S30A-13S-XX	BL-S30B-13S-XX	Hi Red	GaAlAs/GaAs,SH	660	1.85	2.20	6
BL-S30A-13D-XX	BL-S30B-13D-XX	Super Red	GaAlAs/GaAs,DH	660	1.85	2.20	12
BL-S30A-13UR-XX	BL-S30B-13UR-XX	Ultra Red	GaAlAs/GaAs,DDH	660	1.85	2.20	14
BL-S30A-13E-XX	BL-S30B-13E-XX	Orange	GaAsP/GaP	635	2.10	2.50	10
BL-S30A-13Y-XX	BL-S30B-13Y-XX	Yellow	GaAsP/GaP	585	2.10	2.50	10
BL-S30A-13G-XX	BL-S30B-13G-XX	Green	GaP/GaP	570	2.20	2.50	10

Ultra Bright

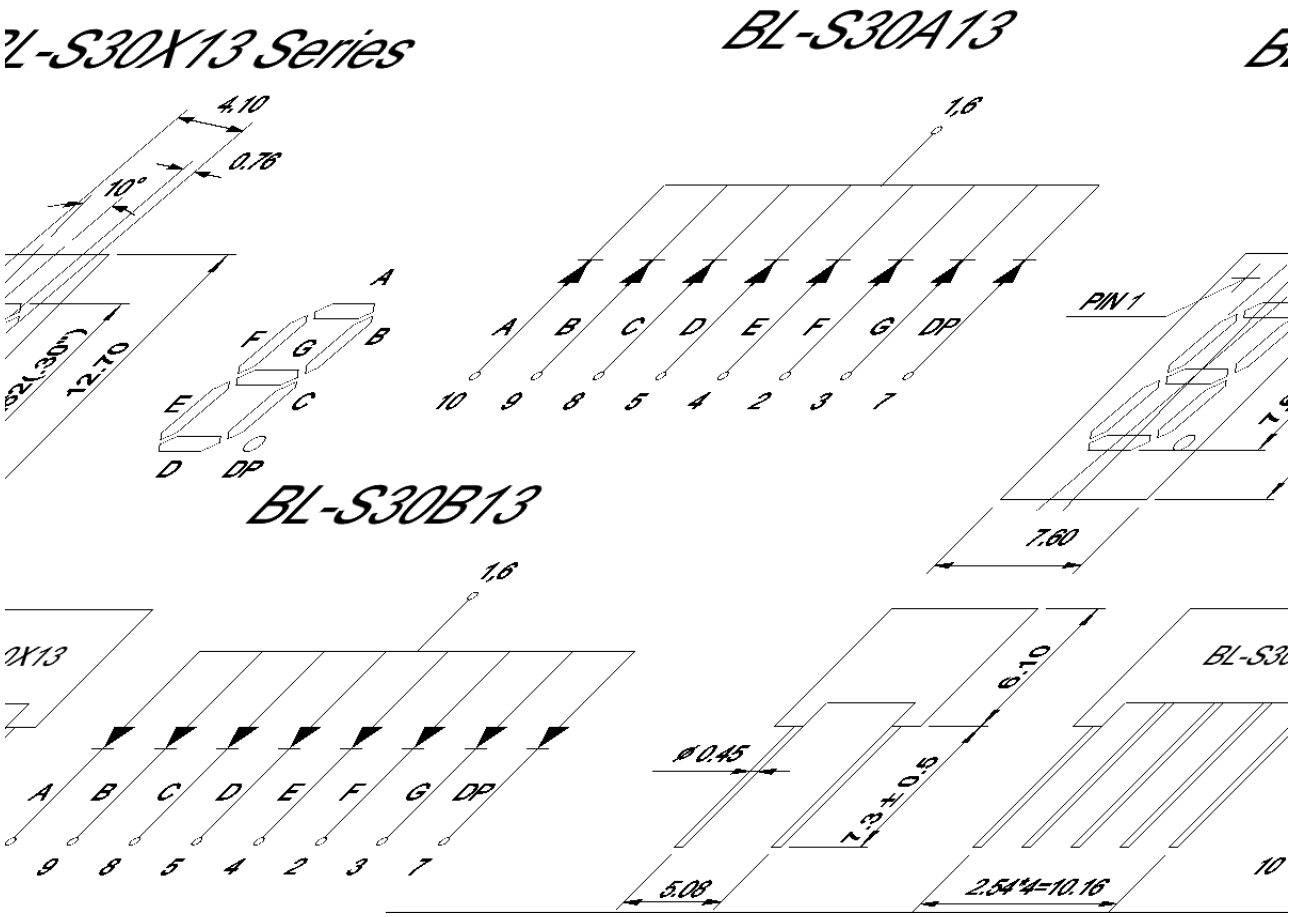
Electrical-optical characteristics: (Ta=25°C) (Test Condition: IF=20mA)

Part No		Chip			VF Unit:V		Iv
Common Cathode	Common Anode	Emitted Color	Material	?P" (nm)	Typ	Max	TYP.(mcd)
BL-S30A-13UHR-XX	BL-S30B-13UHR-XX	Ultra Red	AlGaInP	645	2.10	2.50	14
BL-S30A-13UE-XX	BL-S30B-13UE-XX	Ultra Orange	AlGaInP	630	2.10	2.50	12
BL-S30A-13YO-XX	BL-S30B-13YO-XX	Ultra Amber	AlGaInP	619	2.10	2.50	12
BL-S30A-13UY-XX	BL-S30B-13UY-XX	Ultra Yellow	AlGaInP	590	2.10	2.50	12
BL-S30A-13UG-XX	BL-S30B-13UG-XX	Ultra Green	AlGaInP	574	2.20	2.50	18
BL-S30A-13PG-XX	BL-S30B-13PG-XX	Ultra Pure Green	InGaN	525	3.80	4.50	22
BL-S30A-13B-XX	BL-S30B-13B-XX	Ultra Blue	InGaN	470	2.70	4.20	25
BL-S30A-13W-XX	BL-S30B-13W-XX	Ultra White	InGaN	/	2.70	4.20	30

-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	

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.

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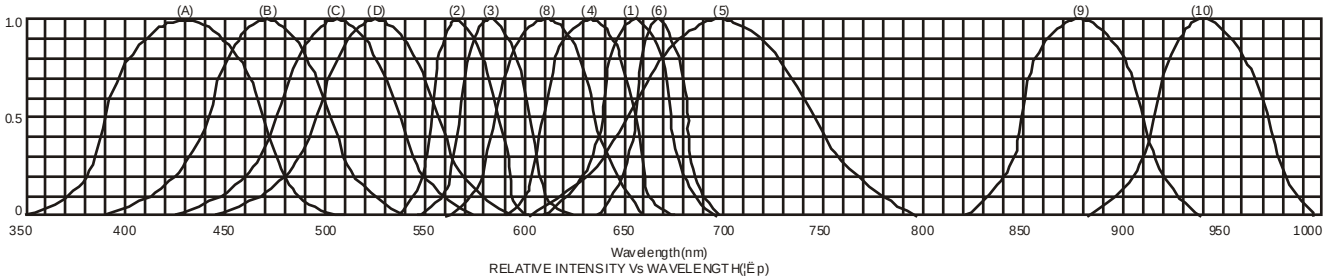
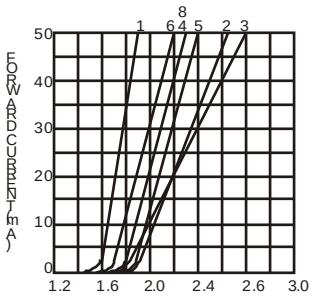
Typical electrical-optical characteristics curves:

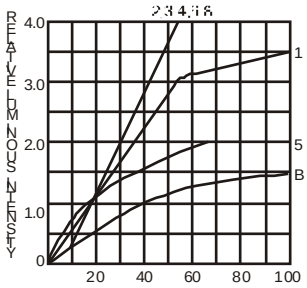


RELATIVE INTENSITY Vs WAVELENGTH(λp)

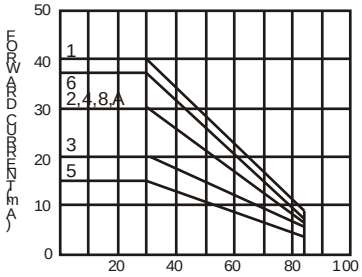
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue
(B) - InGaN/SiC 470nm/Blue
(C) - InGaN/SiC 505nm/Ultra Green
(D) - InGaAl/SiC 525nm/Ultra Green



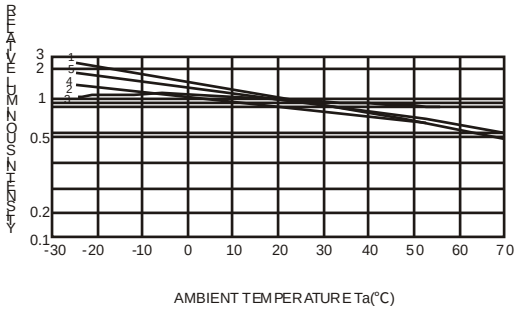
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



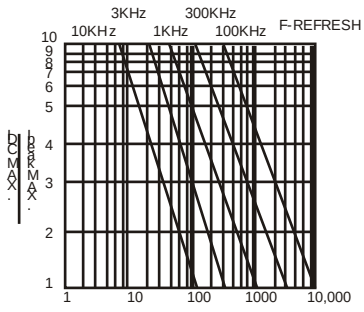
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



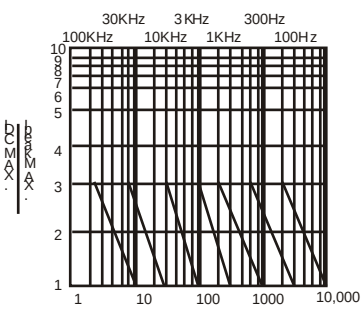
AMBIENT TEMPERATURE Ta(°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta(°C)



tp-PULSE DURATION uS
(1,2,3,4,6,8,B.D.J.K)



tp-PULSE DURATION uS
(5)

NOTE:25°C free air temperature unless otherwise specified