LED BARGRAPH DISPLAY

BL-AR12B3010xx

Features:

- Ø 12 bars, 30.4*10.1*8.0mm, LED light bar, BI-COLOR TYPE
- Ø Ultra brightness available
- Ø Low current operation.
- Ø Excellent character appearance.
- Ø Easy mounting on P.C. Boards or sockets.
- Ø I.C. Compatible.
- Ø RoHs Compliance

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

Part No	Chip			VF Unit:V		Iv TYP.(mcd)
	Emitted Color	Material	λP (nm)	Typ	Max	
BL-AR12Z3010SG--XX	Super Red	AlGaInP	660	2.10	2.50	10
	Green	GaP/GaP	570	2.20	2.50	10
BL-AR12Z3010EG-XX	Orange	GaAsP/GaP	635	2.10	2.50	10
	Green	GaP/GaP	570	2.20	2.50	10
BL-AR12Z3010DUG-XX	Ultra Red	AlGaInP	660	2.10	2.50	30
	Ultra Green	AlGaInP	574	2.20	2.50	18
BL-AR12Z3010UEUG-XX	Ultra Orange	AlGaInP	630	2.10	2.50	18
	Ultra Green	AlGaInP	574	2.20	2.50	18

--XX: Ref Surface / Epoxy color：

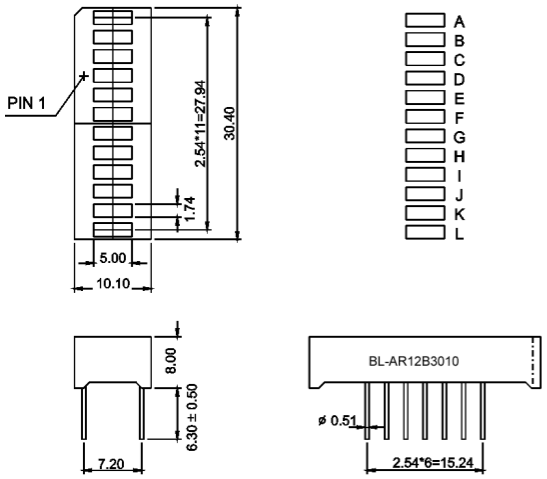
Number	0	1	2	3	4	5
Ref Surface Color	White	Black	Gray	Red	Green	
Epoxy Color	Water clear	White diffused	Red Diffused	Green Diffused	Yellow Diffused	

Absolute maximum ratings (Ta=25°C)

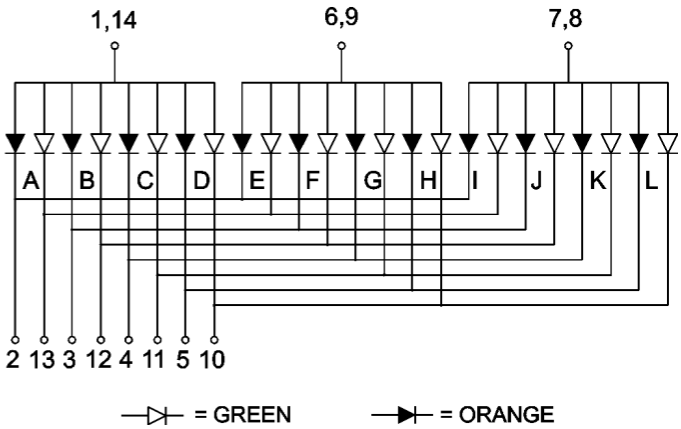
Parameter	S	G	E	D	UG	UE			Unit
Forward Current I_F	30	30	30	30	30	30			mA
Power Dissipation P_d	75	80	80	75	75	65			mW
Reverse Voltage V_R	5	5	5	5	5	5			V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	150			mA
Operation Temperature T_{OPR}	-40 to +80								°C
Storage Temperature 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 & Circuit

BL-AR12Z3010 Series

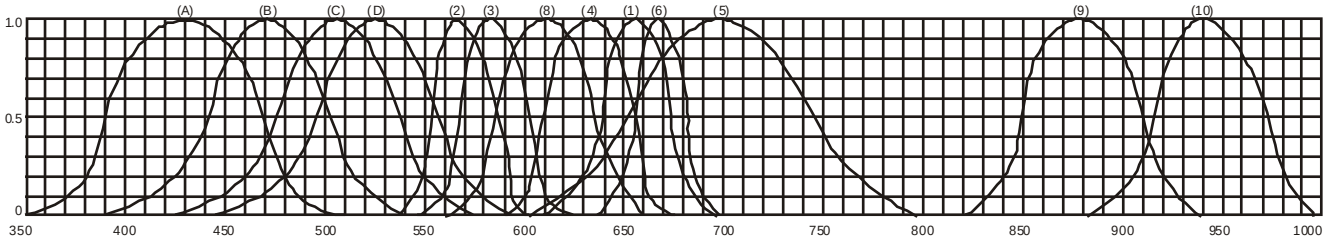


BL-AR12B3010



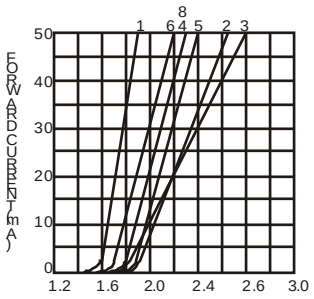
Notes:
·All dimensions are in millimeters (inches)
·Tolerance is ±0.25(0.01")unless otherwise noted.
·Specifications are subject to change without notice.

Typical electrical-optical characteristics curves:

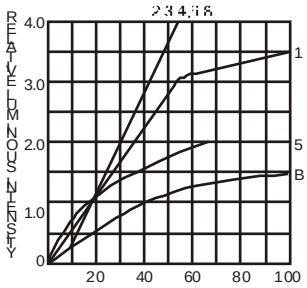


RELATIVE INTENSITY Vs WAVELENGTH(λ p)

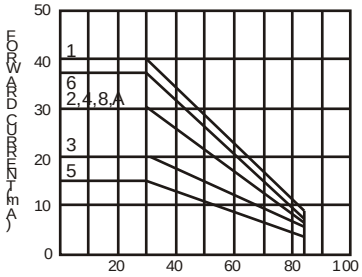
(1) - GaAsP/GaAs 655nm/Red
(2) - GaP 570nm/Yellow Green
(3) - GaAsP/GaP 585nm/Yellow
(4) - GaAsp/GaP 635nm/Orange & Hi-Eff Red
(5) - GaP 700nm/Bright Red
(6) - GaAlAs/GaAs 660nm/Super Red
(8) - GaAsP/GaP 610nm/Super Red
(9) - GaAlAs 880nm
(10) - GaAs/GaAs & GaAlAs/GaAs 940nm
(A) - GaN/SiC 430nm/Blue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



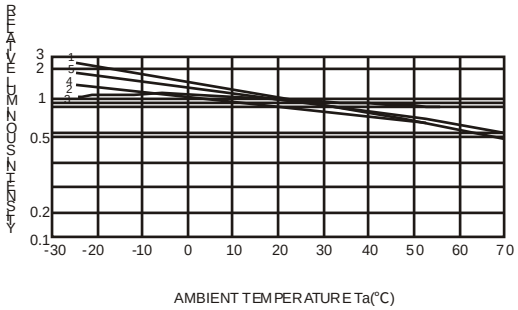
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE

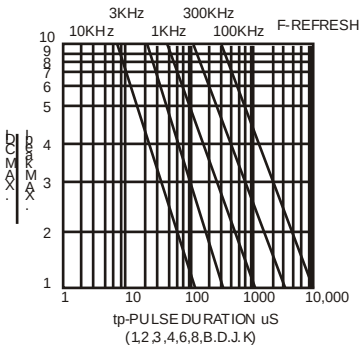


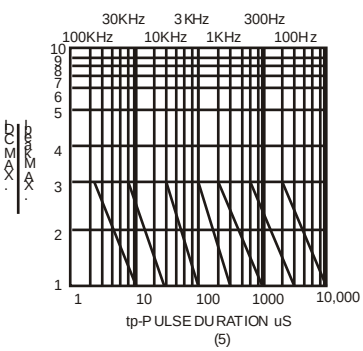
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



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







NOTE:25°C free air temperature unless otherwise specified

Packing and weighting