

LED LIGHT BAR

BL-AS1B10

Features:

- 1 bar, 10.0*10.0*6.8mm, Square LED light bar
- Ultra brightness available
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C. Boards or sockets.
- I.C. Compatible.



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

Part No	Chip			VF		Iv TYP.(mcd)
	Emitted Color	Material	λ_P (nm)	Unit:V		
				Typ	Max	
BL-AS1B10S--XX	Hi Red	GaAlAs/GaAs,SH	660	1.85	2.20	6
BL-AS1B10D-XX	Super Red	GaAlAs/GaAs,DH	660	1.85	2.20	11
BL-AS1B10UR-XX	Ultra Red	GaAlAs/GaAs,DDH	660	1.85	2.20	20
BL-AS1B10E-XX	Red	GaAsP/GaP	635	2.10	2.50	6
BL-AS1B10Y-XX	Yellow	GaAsP/GaP	585	2.10	2.50	6
BL-AS1B10G-XX	Green	GaP/GaP	570	2.20	2.50	6
BL-AS1B10UHR-XX	Ultra Red	AlGaInP	645	2.10	2.50	20
BL-AS1B10UE-XX	Ultra Red	AlGaInP	630	2.10	2.50	11
BL-AS1B10YO-XX	Ultra Amber	AlGaInP	619	2.10	2.50	11
BL-AS1B10UY-XX	Ultra Yellow	AlGaInP	590	2.10	2.50	11
BL-AS1B10UG-XX	Ultra Green	AlGaInP	574	2.20	2.50	11
BL-AS1B10PG-XX	Ultra Pure Green	InGaN	525	3.80	4.50	16
BL-AS1B10UB-XX	Ultra Blue	InGaN	470	2.70	4.20	22
BL-AS1B10UW-XX	Ultra White	InGaN	/	2.70	4.20	35

--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	

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■ Absolute maximum ratings (Ta=25°C)

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							°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

■ Absolute maximum ratings (Ta=25°C)

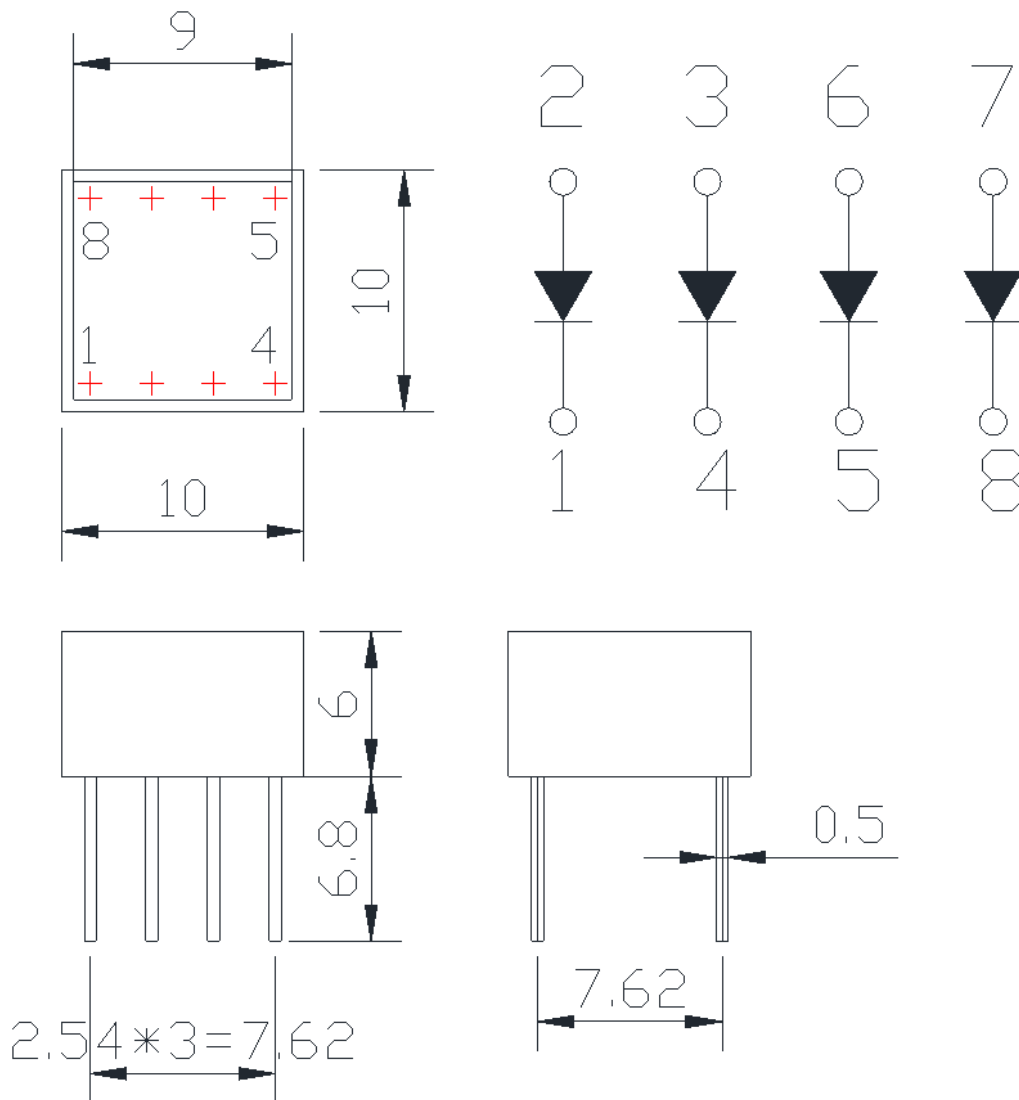
Parameter	UHR	UE	YO	UY	UG	PG	UB	UW	Unit
Forward Current I_F	30	30	30	30	30	30	30	30	mA
Power Dissipation P_d	75	65	65	65	75	110	120	120	mW
Reverse Voltage V_R	5	5	5	5	5	5	5	5	V
Peak Forward Current I_{PF} (Duty 1/10 @1KHZ)	150	150	150	150	150	150	100	100	mA
Operation Temperature T_{OPR}	-40 to +80								°C
Storage Temperature T_{STG}	-40 to +85								°C
Lead Soldering Temperature 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 & Circuit**

BL-AS1B10 Series



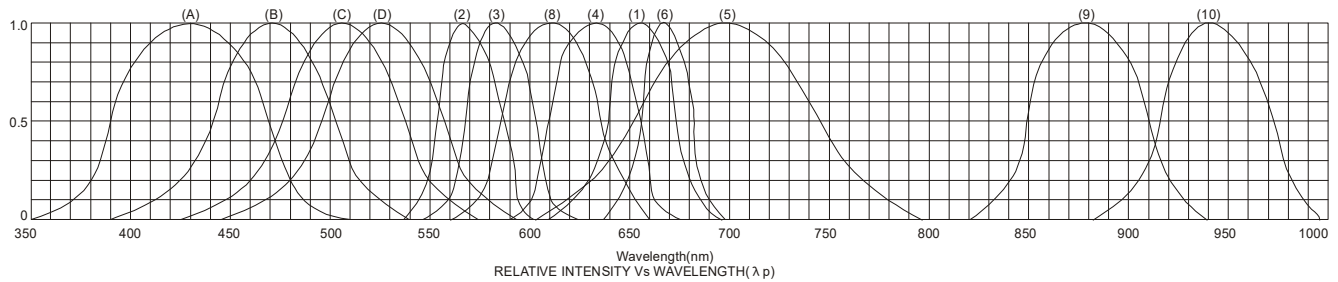
Notes:

- All dimensions are in millimeters (inches)
- Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- Specifications are subject to change without notice.

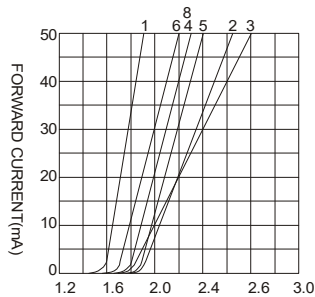
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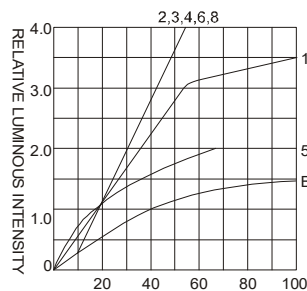
■ Typical electrical-optical characteristics curves:



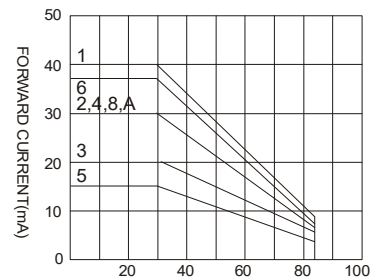
- | | |
|---|--------------------------------------|
| (1) - GaAsP/GaAs 655nm/Red | (9) - GaAlAs 880nm |
| (2) - GaP 570nm/Yellow Green | (10) - GaAs/GaAs & GaAlAs/GaAs 940nm |
| (3) - GaAsP/GaP 585nm/Yellow | (A) - GaN/SiC 430nm/Blue |
| (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red | (B) - InGaN/SiC 470nm/Blue |
| (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 | |



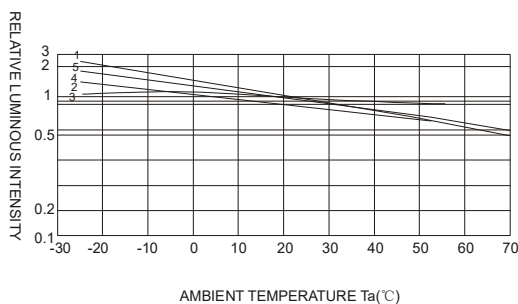
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



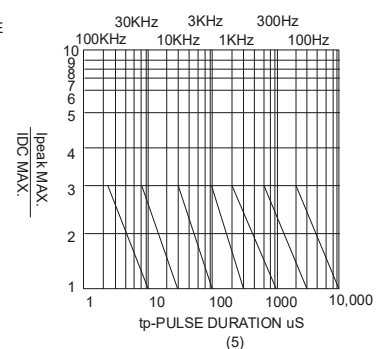
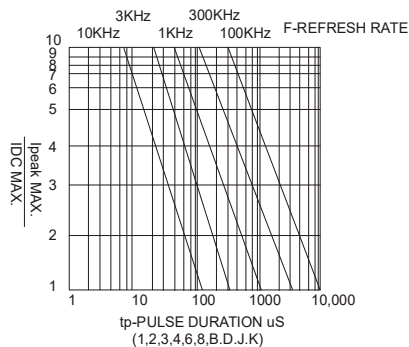
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



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



AMBIENT TEMPERATURE Ta(°C)



NOTE: 25°C free air temperature unless otherwise specified

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■ Packing and weighting

