

LED BARGRAPH DISPLAY

BL-AR10B2510xx

Features:

- Ø 10 bars, 25.4*10.1*6.8mm, 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 | | Iv TYP.(mcd) |
|---------------------|---------------|-----------|---------------------|--------|------|--------------|
| | Emitted Color | Material | λ _P (nm) | Unit:V | | |
| | | | | Typ | Max | |
| BL-AR10B2510SG--XX | Super Red | AlGaInP | 660 | 2.10 | 2.50 | 10 |
| | Green | GaP/GaP | 570 | 2.20 | 2.50 | 10 |
| BL-AR10B2510EG-XX | Orange | GaAsP/GaP | 635 | 2.10 | 2.50 | 10 |
| | Green | GaP/GaP | 570 | 2.20 | 2.50 | 10 |
| BL-AR10B2510DUG-XX | Ultra Red | AlGaInP | 660 | 2.10 | 2.50 | 30 |
| | Ultra Green | AlGaInP | 574 | 2.20 | 2.50 | 18 |
| BL-AR10B2510UEUG-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)

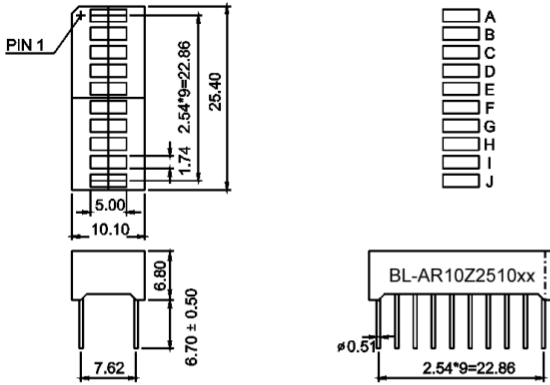
| Parameter | S | G | E | D | UG | UE | | Unit |
|---|---|-----|-----|-----|-----|-----|--|------|
| Forward Current I _F | 30 | 30 | 30 | 30 | 30 | 30 | | mA |
| Power Dissipation P _d | 75 | 80 | 80 | 75 | 75 | 65 | | mW |
| Reverse Voltage V _R | 5 | 5 | 5 | 5 | 5 | 5 | | V |
| Peak Forward Current 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 |

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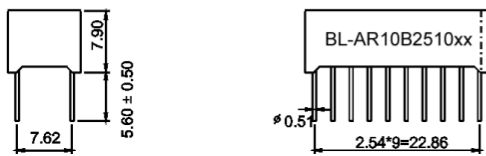
BL-AR10B2510xx

Package & Circuit

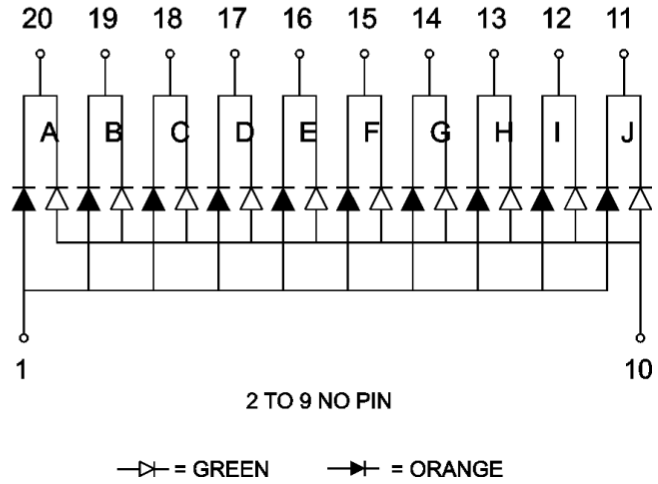
BL-AR10Z2510 Series



BL-AR10B2510 Series



BL-AR10Z2510xx



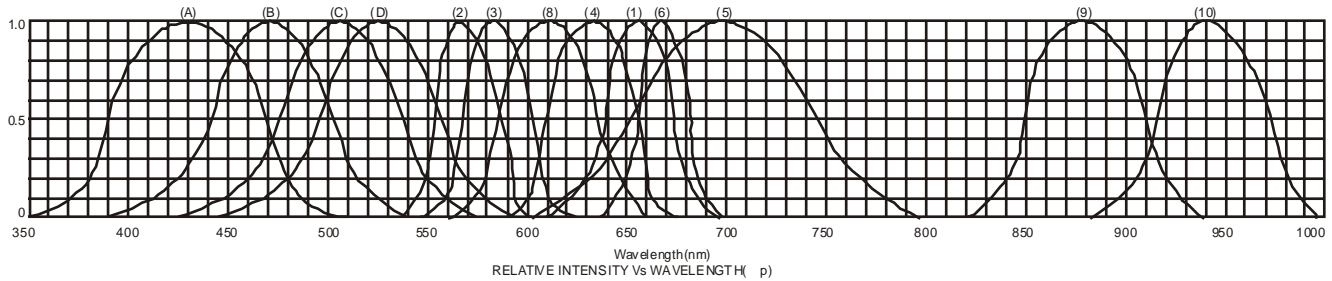
Notes:

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

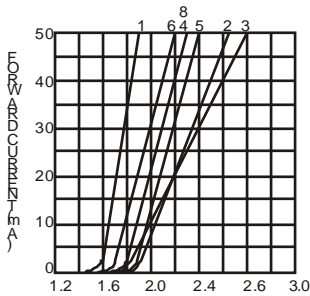
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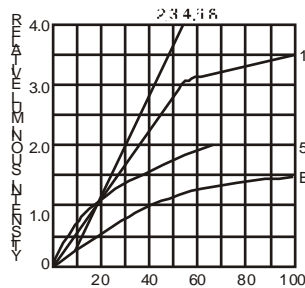
Typical electrical-optical characteristics curves:



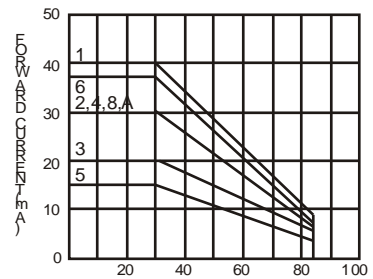
- (1) - GaAsP/GaAs 655nm/Red
- (2) - GaP 570nm/Yellow Green
- (3) - GaAsP/GaP 585nm/Yellow
- (4) - GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) - GaP 700nm/Bright Red
- (6) - GaAlAs/GaAs 660nm/Super Red
- (8) - GaAsP/GaP 610nm/Super Red
- (9) - GaAlAs 880nm
- (10) - GaAs/GaAs & GaAlAs/GaAs 940nm
- (A) -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



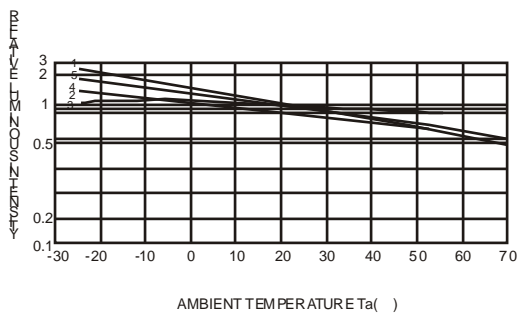
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



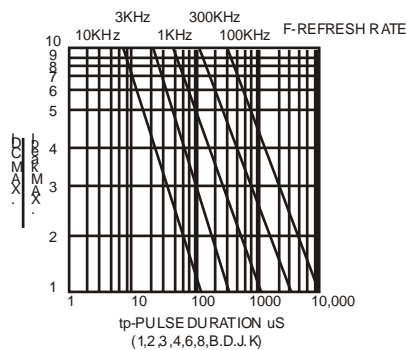
FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



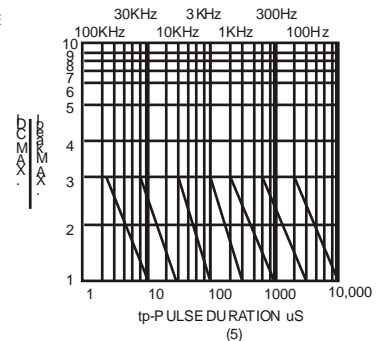
AMBIENT TEMPERATURE Ta (°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



AMBIENT TEMPERATURE Ta (°C)



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



(5)

NOTE: 25 free air temperature unless otherwise specified

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Packing and weighting

