

8.89mmx8.89mm LIGHT BAR

KB-2965EGW-B

HIGH EFFICIENCY RED GREEN

Features

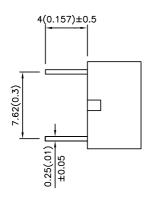
- **•**UNIFORM LIGHT EMITTING AREA.
- •LOW CURRENT OPERATION.
- ●EASILY MOUNTED ON P.C. BOARDS.
- •FLUSH MOUNTABLE.
- •EXCELLENT ON/OFF CONTRAST.
- ●CAN BE USED WITH PANELS AND LEGEND MOUNTS.

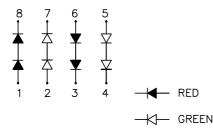
Description

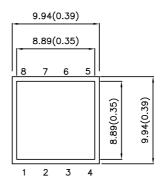
The High Efficiency Red source color devices are made With Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

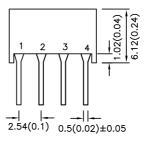
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions & Internal Circuit Diagram









Notes

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Lead spacing is measured where the lead emerge package.
- 4. Specifications are subject to change without notice.

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APPROVED: J. Lu CHECKED: Allen Liu DRAWN: L.L.NIE

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Selection Guide

| Part No. | Dice | Lens Type | lv (mcd) @ 20mA | |
|--------------|---------------------------------|-----------------|--------------------|------|
| | | | Min. | Тур. |
| KB-2965EGW-B | HIGH EFFICIENCY RED (GaAsP/GaP) | WHITE DIFFLICED | 50 | 120 |
| | GREEN (GaP) | WHITE DIFFUSED | 50 | 120 |

Electrical / Optical Characteristics at Ta=25°C

| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|------------------------------|------------|------------|-------|-----------------|
| λpeak | Peak Wavelength | High Efficiency Red Green | 627 565 | | nm | I==20mA |
| λD | Dominate Wavelength | High Efficiency Red Green | 625 568 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | High Efficiency Red Green | 45 30 | | nm | IF=20mA |
| С | Capacitance | High Efficiency Red Green | 15 15 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | High Efficiency Red Green | 4.0 4.4 | 5.0 5.0 | V | I==20mA |
| lr | Reverse Current | All | | 10 | uA | VR= 10V |

Absolute Maximum Ratings at Ta=25°C

| Parameter | High Efficiency Red | Green | Units | | |
|-------------------------------|---------------------|-------|-------|--|--|
| Power dissipation | 150 | 125 | mW | | |
| DC Forward Current | 30 | 25 | mA | | |
| Peak Forward Current [1] | 160 | 140 | mA | | |
| Reverse Voltage | 10 | 10 | V | | |
| Operating/storage Temperature | -40°C To +85°C | | | | |
| Lead Solder Temperature [2] | 260°C For 5 Seconds | | | | |

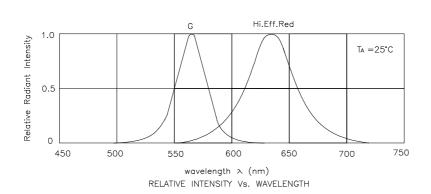
Notes

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

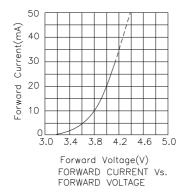
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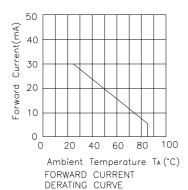
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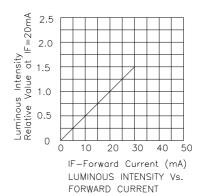
KB-2965EGW-B High Efficiency Red

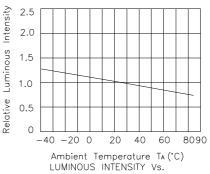
APPROVED: J. Lu





CHECKED: Allen Liu





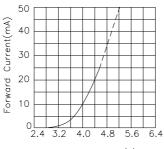
Ambient Temperature TA (°C) LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

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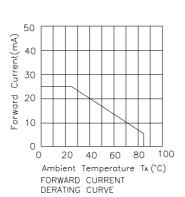
DRAWN: L.L.NIE

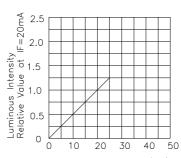
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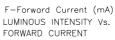
Green

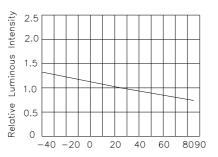


Forward Voltage(V) FORWARD CURRENT Vs. FORWARD VOLTAGE









Ambient Temperature TA (°C) LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

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