#### 8.89mmx8.89mm LIGHT BAR

KB-2965EGW-B

HIGH EFFICIENCY RED GREEN

#### **Features**

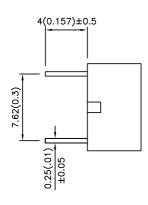
- **•**UNIFORM LIGHT EMITTING AREA.
- •LOW CURRENT OPERATION.
- ●EASILY MOUNTED ON P.C. BOARDS.
- •FLUSH MOUNTABLE.
- •EXCELLENT ON/OFF CONTRAST.
- •CAN BE USED WITH PANELS AND LEGEND MOUNTS.

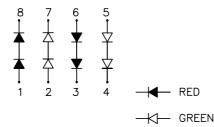
## **Description**

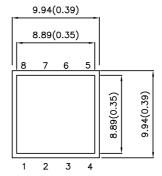
The High Efficiency Red source color devices are made With Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

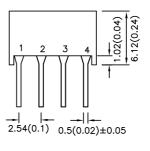
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

### 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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#### **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) @ 20mA	
		,,	Min.	Тур.
KB-2965EGW-B	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	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	IF=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	IF=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				

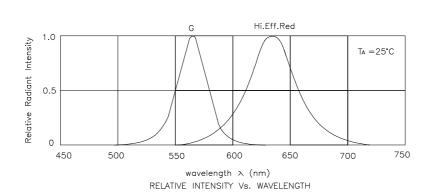
#### Notes:

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

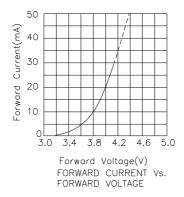
2. 2mm below package base.

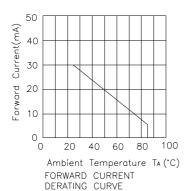
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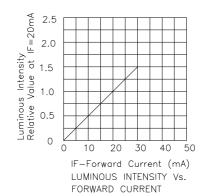
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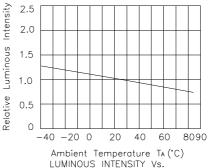


## **KB-2965EGW-B High Efficiency Red**









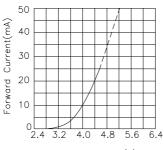
Ambient Temperature TA (°C) LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

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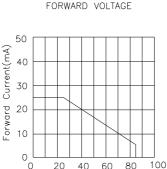
SPEC NO: DSAA1591 **REV NO: V.2** DATE: JUN/03/2004 APPROVED: J. Lu **CHECKED: Allen Liu** DRAWN: L.L.NIE

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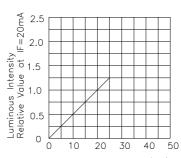
#### Green



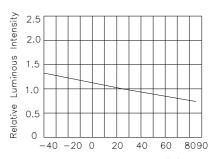
Forward Voltage(V) FORWARD CURRENT Vs. FORWARD VOLTAGE



0 20 40 60 80 100 Ambient Temperature Ta(°C) FORWARD CURRENT DERATING CURVE



F-Forward Current (mA) LUMINOUS INTENSITY Vs. FORWARD CURRENT



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

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