## **Kingbright**

### 8.89mmx8.89mm LED LIGHT BAR

Part Number: KB-2655ID HIGH EFFICIENCY RED

#### 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.
- RoHS COMPLIANT.

#### Description

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

### Package Dimensions & Internal Circuit Diagram











Notes:

1. All dimensions are in millimeters (inches), Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted. 2. Specifications are subject to change without notice.



SPEC NO: DSAC6618 **APPROVED: WYNEC** 

**REV NO: V.3** CHECKED: Joe Lee DATE: APR/07/2007 DRAWN: W.J.ZHU

## Kingbright

### **Selection Guide**

Part No.	Dice	Lens Type	lv (ucd) [1] @ 20mA	
			Min.	Тур.
KB-2655ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	18000	66750

Note:

1.Luminous Intensity / Luminous Flux: +/-15%.

### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA
lr	Reverse Current	High Efficiency Red		10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

### Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	160	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	[2] 260°C For 3~5 Seconds		

Notes:

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

2. 2mm below package base.

# Kingbright

