

### PRELIMINARY SPEC

Part Number: KB-2600ID

High Efficiency Red

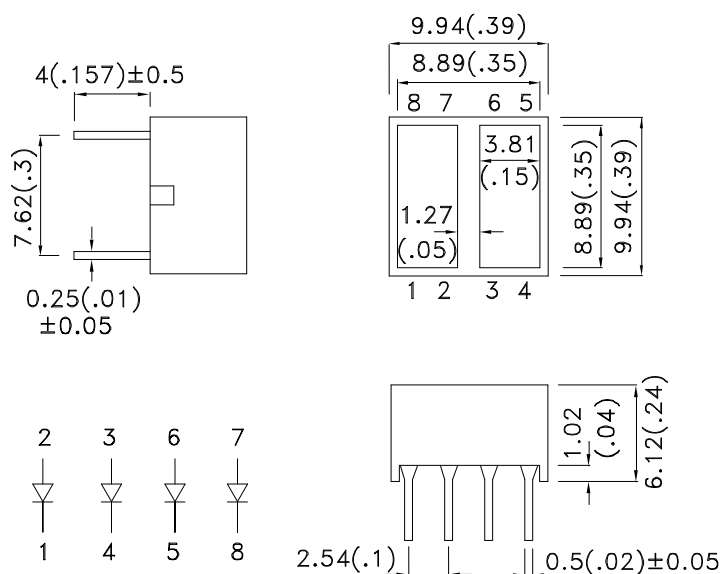
### Features

- 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.
- Categorized for luminous intensity.
- 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.



## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [1] @ 20mA	
			Min.	Typ.
KB-2600ID	High Efficiency Red (GaAsP/GaP)	RED DIFFUSED	7	24.6

Note:

1. Luminous intensity/ luminous Flux: +/-15%.

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

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	High Efficiency Red	627		nm	I <sub>F</sub> =20mA
$\lambda_D$ [1]	Dominant Wavelength	High Efficiency Red	625		nm	I <sub>F</sub> =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	High Efficiency Red	45		nm	I <sub>F</sub> =20mA
C	Capacitance	High Efficiency Red	15		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub> [2]	Forward Voltage	High Efficiency Red	2.0	2.5	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	High Efficiency Red		10	uA	V <sub>R</sub> =5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

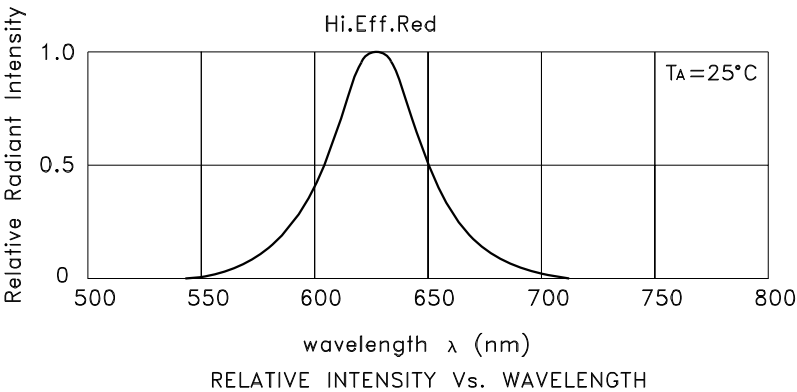
## Absolute Maximum Ratings at TA=25°C

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]	260°C For 3-5 Seconds	

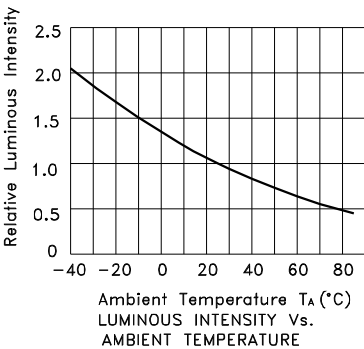
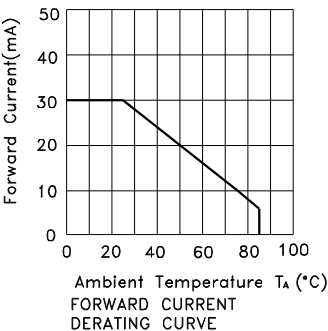
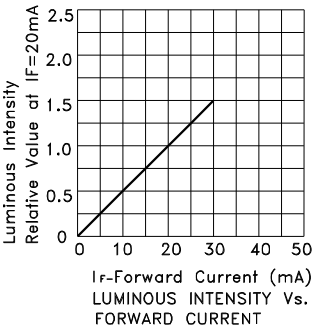
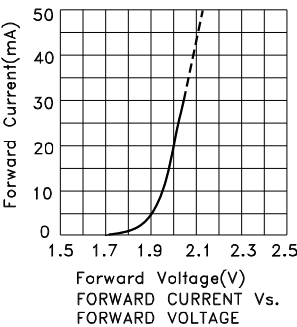
Notes:

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

2. 2mm below package base.

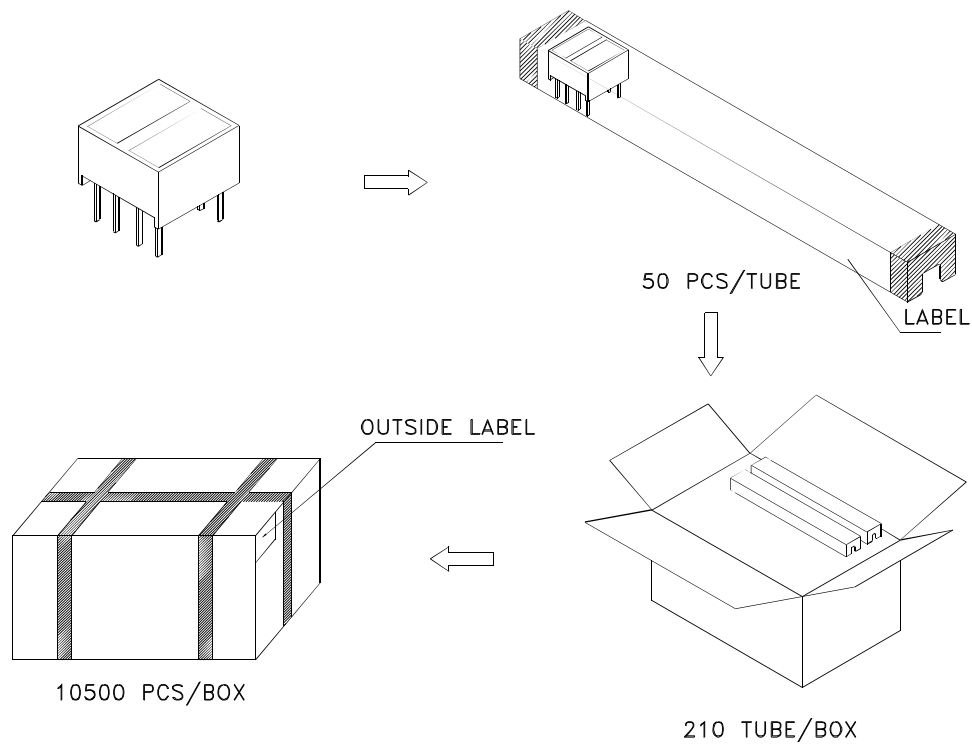


High Efficiency Red KB-2600ID



## PACKING & LABEL SPECIFICATIONS

KB-2600ID



Inside Label Paste On The IC-tube

<b>Kingbright</b>	TYPE: KB-2600xxx	PASSED xx xx xx FQCX	Date
	QTY: 50 PCS CODE: xx		
XXXXXXXXXX-XXXX		Number OF FQC	
LOT NO.		RoHS Compliant	

Outside Label Paste On The Box

XXXXXX	Bin Code		Number OF QA
KB-2600xxx	XX		
10500 PCS	QAx xx xx xx PASSED		Date
RoHS Compliant			