

Part Number: TBA20-12EGWA HIGH EFFICIENCY RED GREEN

### Features

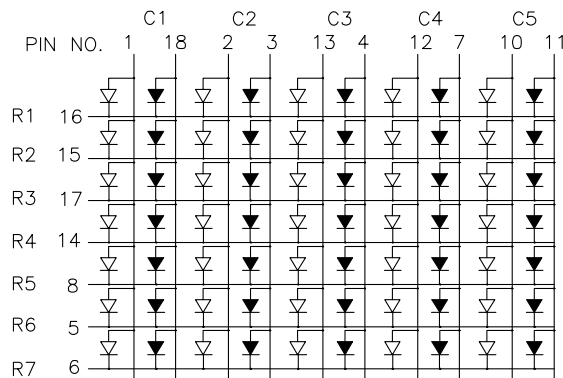
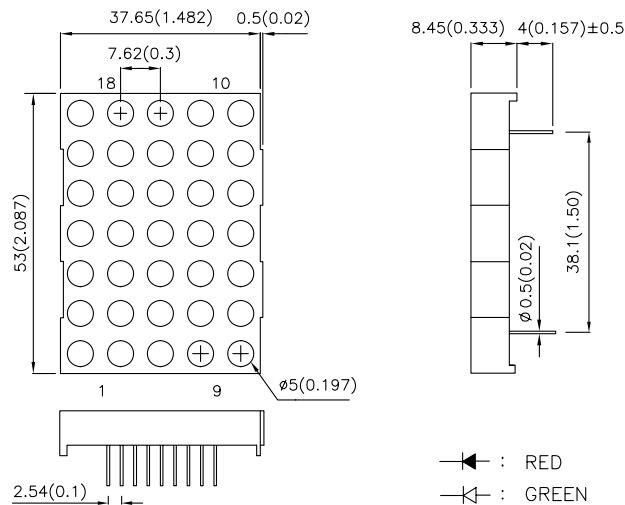
- 2.0 INCH MATRIX HEIGHT.
- DOT SIZE 5mm.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- STACKABLE HORIZONTALLY.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE DOT.
- RoHS COMPLIANT.

### 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), 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 (ucd) [1] @ 10mA		Description
			Min.	Typ.	
TBA20-12EGWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	3000	12000	Column Anode
	GREEN (GaP)		3000	16000	

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 Green	627 565		nm	$I_F=20mA$
$\lambda_D$ [1]	Dominant Wavelength	High Efficiency Red Green	625 568		nm	$I_F=20mA$
$\Delta\lambda_{1/2}$	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	$I_F=20mA$
C	Capacitance	High Efficiency Red Green	15 15		pF	$V_F=0V;f=1MHz$
$V_F$ [2]	Forward Voltage	High Efficiency Red Green	2.0 2.2	2.5 2.5	V	$I_F=20mA$
$I_R$	Reverse Current	High Efficiency Red Green		10 10	$\mu A$	$V_R = 5V$

Notes:

1.Wavelength: +/-1nm

2.Forward Voltage: +/-0.1V

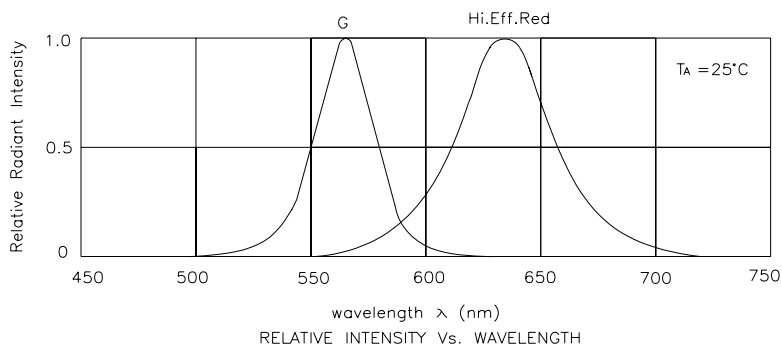
## Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Green	Units
Power dissipation	105	105	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	160	140	mA
Reverse Voltage	5		V
Operating / Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		

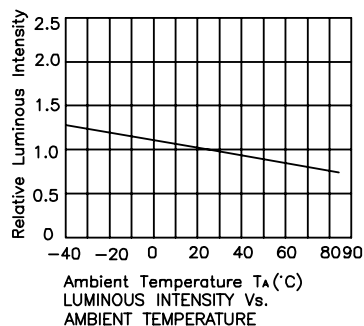
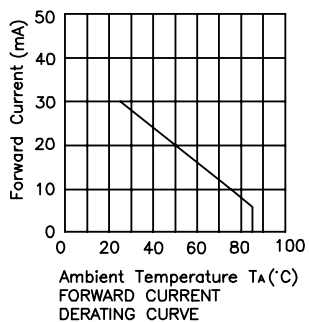
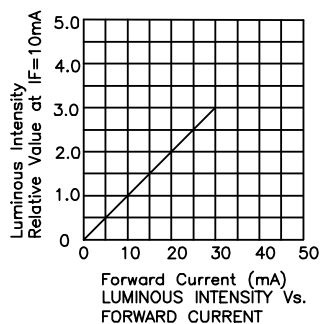
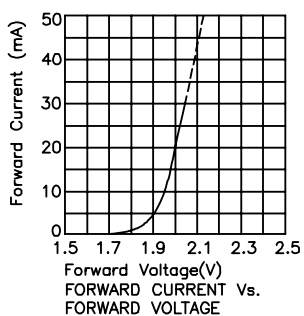
Notes:

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

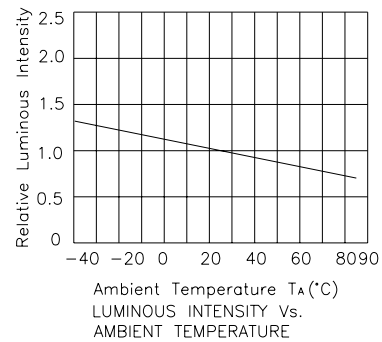
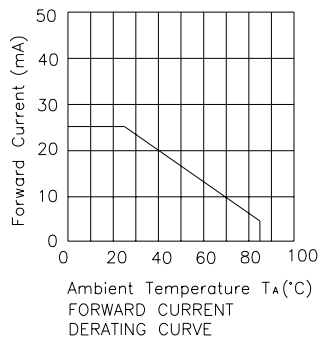
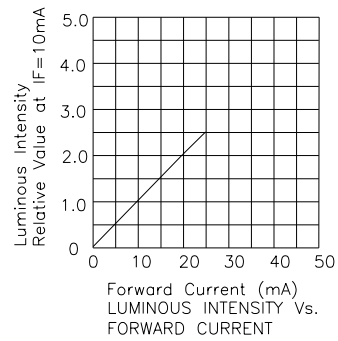
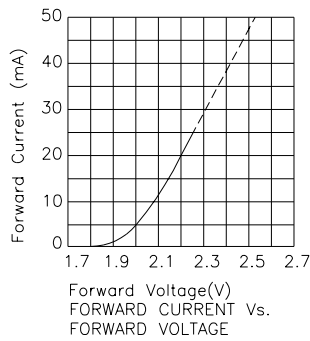
2. 2mm below package base.



## TBA20-12EGWA High Efficiency Red



## Green



## PACKING & LABEL SPECIFICATIONS

## TBA20-12EGWA

