



TBC20-11EGWA

HIGH EFFICIENCY RED

GREEN

Features

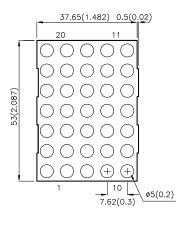
- •2.0 INCH MATRIX HEIGHT.
- •DOT SIZE 5mm.
- •LOW CURRENT OPERATION.
- •HIGH CONTRAST AND LIGHT OUTPUT.
- •STACKABLE HORIZONTALLY.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •CATEGORIZED FOR LUMINOUS INTENSITY.
- •MECHANICALLY RUGGED.
- •STANDARD: GRAY FACE, WHITE DOT.

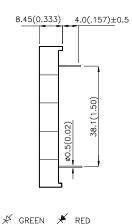
Description

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

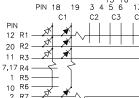
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

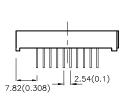
Package Dimensions & Internal Circuit Diagram











Notes:

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

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Selection Guide

Part No.	Dice	Lens Type	lv (ucd) @ 10 mA		Description
			Min.	Тур.	Description
TBC20-11EGWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIEELIGED	4700	12000	Column Cathode
	GREEN (GaP)	WHITE DIFFUSED	4700	16000	

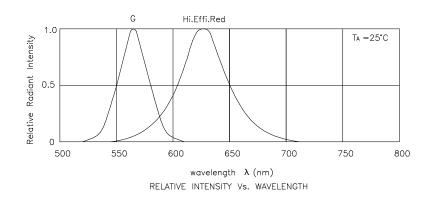
Electrical / Optical Characteristics at T_A=25°C

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	V _F =0V;f=1MHz
VF	Forward Voltage	High Efficiency Red Green	2.0 2.2	2.5 2.5	V	IF=20mA
IR	Reverse Current	All		10	uA	V _R = 5V

Absolute Maximum Ratings at T_A=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		V			
Operating/Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 5 Seconds				

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 2mm below package base.



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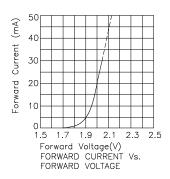
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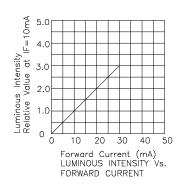
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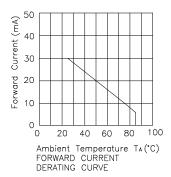
Kingbright

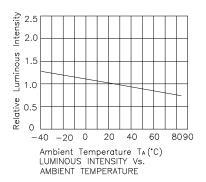
High Efficiency Red

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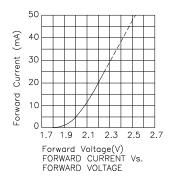


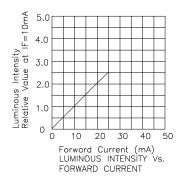


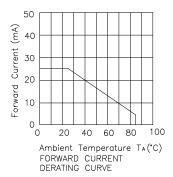


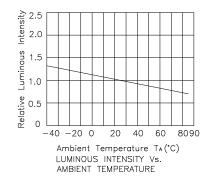


Green









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