

TA24-11EWA/GWA/YWA/SRWA
TC24-11EWA/GWA/YWA/SRWA
TBA24-11EGWA
TBC24-11EGWA
TBA24-22EGWA
TBC24-22EGWA

Features

- 2.4 INCH MATRIX HEIGHT.
- DOT SIZE 5mm.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- COMPATIBLE WITH ASCII AND EBCDIC CODES.
- STACKABLE HORIZONTALLY.
- COLUMN CATHODE AND COLUMN ANODE AVAILABLE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- MULTICOLOR AVAILABLE.
- CATEGORIZED FOR LUMINOUS INTENSITY, YELLOW AND GREEN CATEGORIZED FOR COLOR.
- 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.

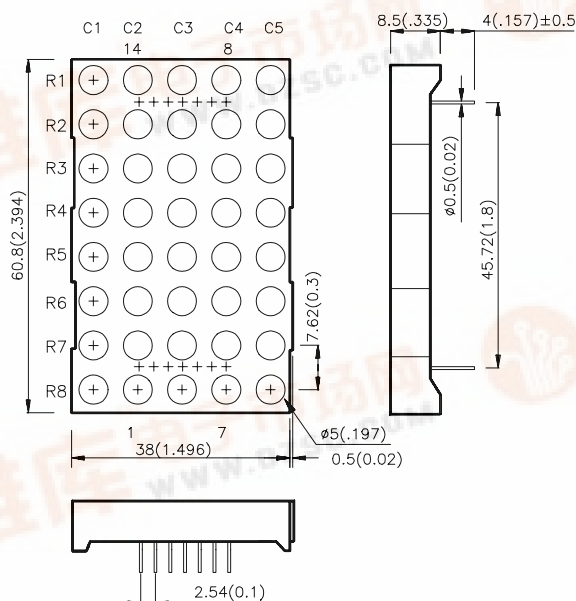
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

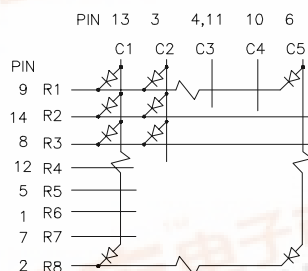
The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions & Internal Circuit Diagram

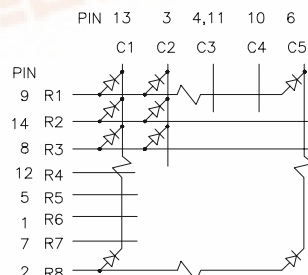
TA/TC24-11



TA24-11



TC24-11

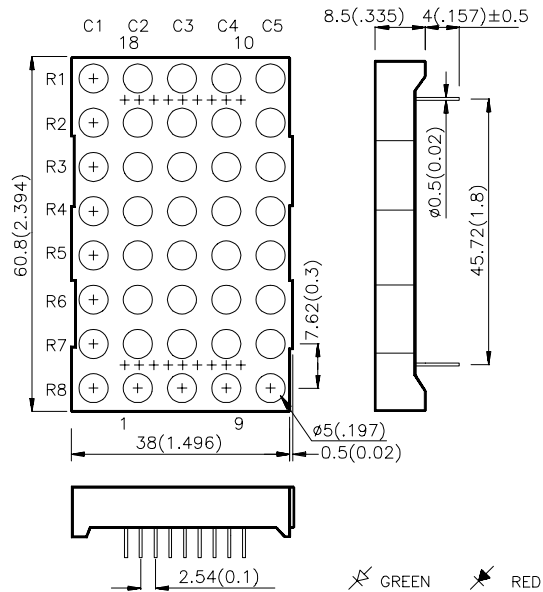


Notes:

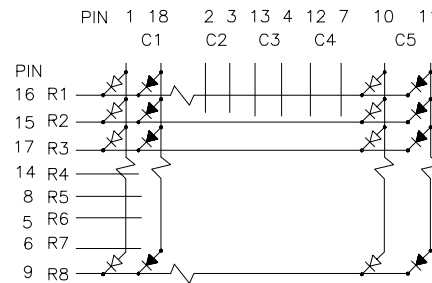
1. All dimensions are in millimeters (inches), Tolerance is ± 0.25 (0.01 ") unless otherwise noted.
2. Specifications are subject to change without notice.

Package Dimensions & Internal Circuit Diagram

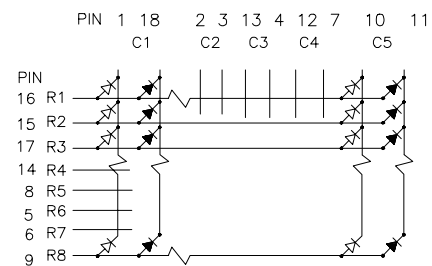
TBA/TBC24-11



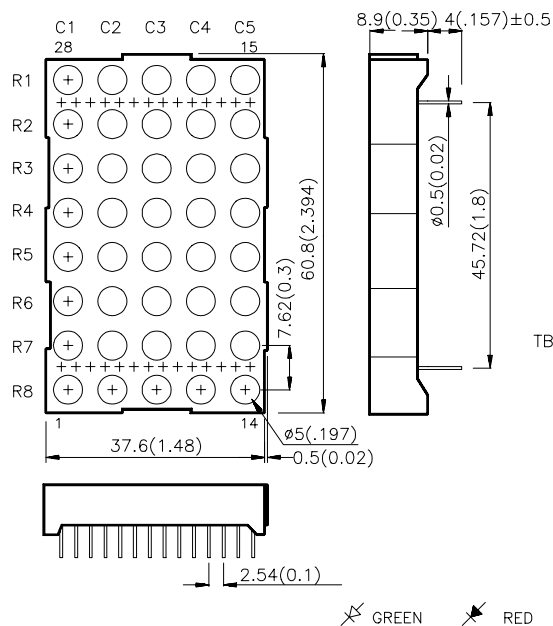
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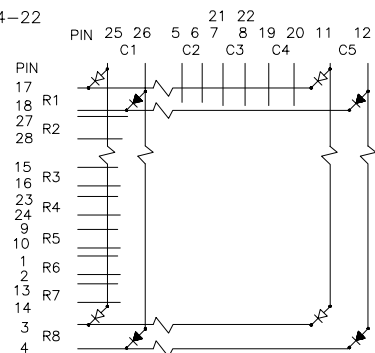
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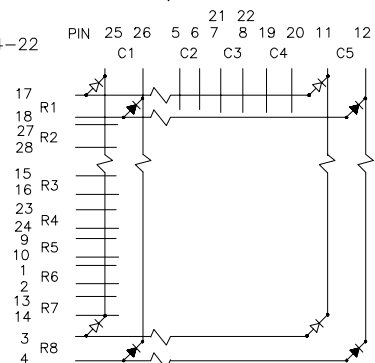
TBA/TBC24-22



TBA24-22



TBC24-22



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	Iv (ucd) @ 10 mA		Description
		Min.	Typ.	
TA24-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	3000	8000	Column Anode
TC24-11EWA				Column Cathode
TA24-11GWA	GREEN (GaP)	4700	12000	Column Anode
TC24-11GWA				Column Cathode
TA24-11YWA	YELLOW (GaAsP/GaP)	3000	8000	Column Anode
TC24-11YWA				Column Cathode
TA24-11SRWA	SUPER BRIGHT RED (GaAlAs)	12000	26000	Column Anode
TC24-11SRWA				Column Cathode
TBA24-11EGWA	HIGH EFFICIENCY RED (GaAsP/GaP) GREEN (GaP)	3000	8000	Column Anode
TBC24-11EGWA		4700	12000	Column Cathode
TBA24-22EGWA	HIGH EFFICIENCY RED (GaAsP/GaP) GREEN (GaP)	3000	8000	Column Anode
TBC24-22EGWA		4700	12000	Column Cathode

Electrical / Optical Characteristics at T_A=25°C

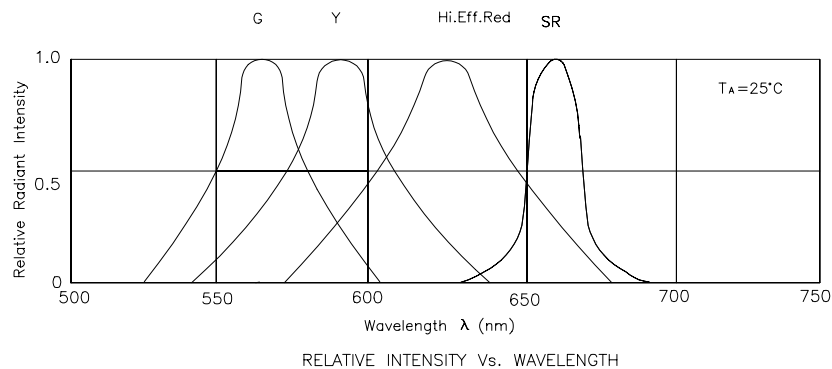
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	627 565 590 660		nm	IF=20mA
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 568 588 640		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	IF=20mA
C	Capacitance	High Efficiency Red Green Yellow Super Bright Red	15 15 20 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red	2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

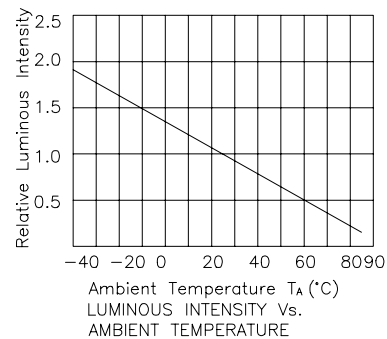
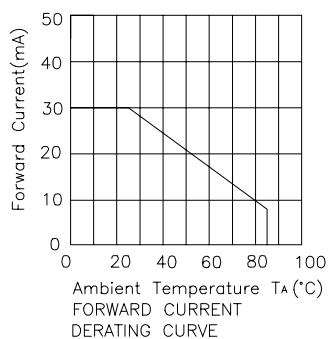
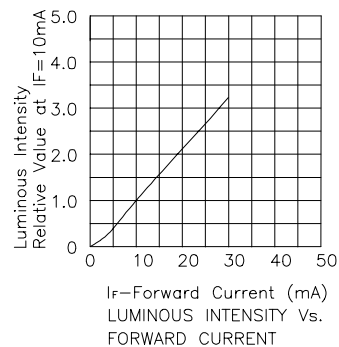
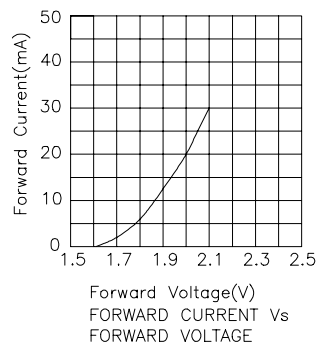
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	105	105	105	100	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	160	140	140	155	mA
Reverse Voltage	5	5	5	5	V
Operating/Storage Temperature	-40°C To $+85^\circ\text{C}$				
Lead Solder Temperature [2]	260°C For 5 Seconds				

Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.

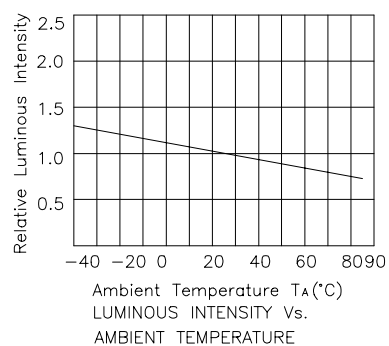
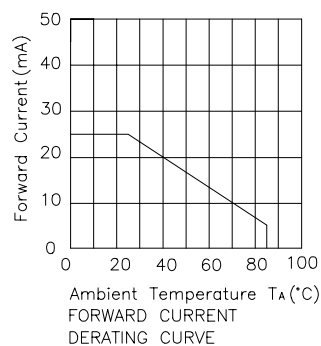
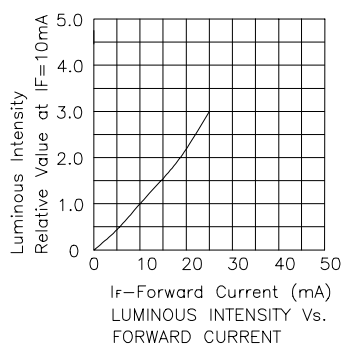
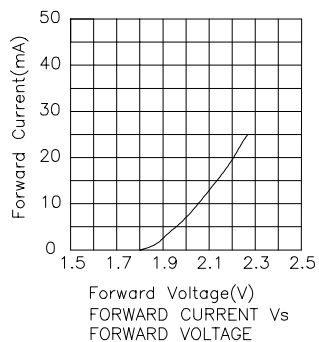


High Efficiency Red

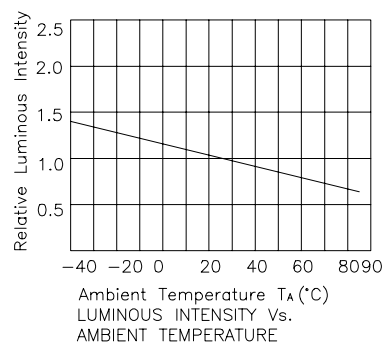
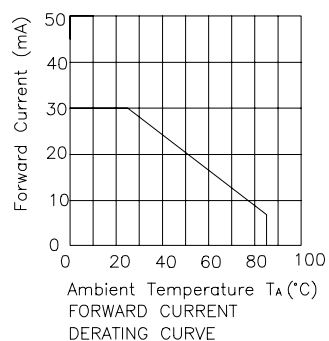
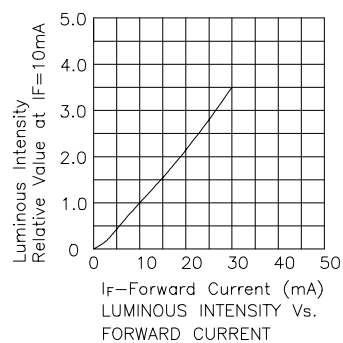
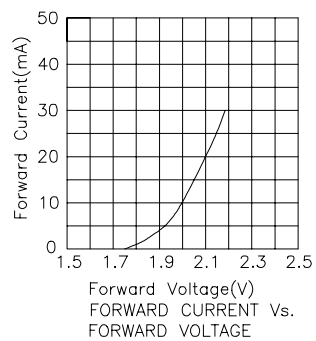


Kingbright

Green



Yellow



Super Bright Red

