

18mm (0.7 INCH) 5x7 SINGLE COLOR **DOT MATRIX DISPLAYS**

TA07-11 TC07-11

Features

- •0.7 INCH MATRIX HEIGHT.
- •DOT SIZE 2mm.
- •LOW CURRENT OPERATION.
- •COMPATIBLE WITH USACII AND EBCDIC CODES.
- •STACKABLE VERTICALLY AND HORIZONTALLY.
- **•**COLUMN CATHODE AND COLUMN ANODE AVAILABLE.
- •EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •CATEGORIZED FOR LUMINOUS INTENSITY, YELLOW AND GREEN CATEGORIZED FOR COLOR.
- •MECHANICALLY RUGGED.
- •STANDARD: GRAY FACE, WHITE DOT.

Description

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

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

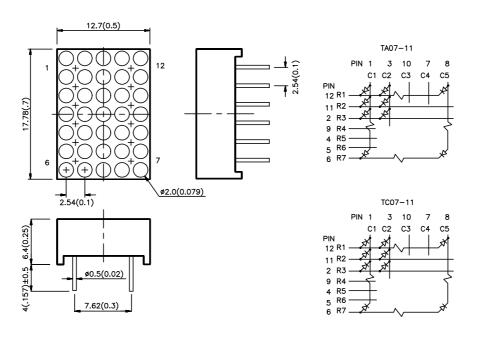
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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



- 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
 2. Specifications are subjected to change whitout notice.

Selection Guide

Part No.	Dice	lv (ucd) @ 10 mA			
Tartino.	Dice	Min.	Max.	Description	
TA07-11HWA	BRIGHT RED (GaP)	360	900	Column Anode	
TC07-11HWA	BRIGHT RED (Gar)	300		Column Cathode	
TA07-11EWA	LUCLI EFFICIENCY DED (O-A-D/O-D)	2200	5600	Column Anode	
TC07-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)			Column Cathode	
TA07-11GWA	CDEEN (CoD)	2200	5600	Column Anode	
TC07-11GWA	GREEN (GaP)	2200		Column Cathode	
TA07-11YWA	VELLOW (CoAsD(CoD)	2200	5600	Column Anode	
TC07-11YWA	YELLOW (GaAsP/GaP)			Column Cathode	
TA07-11SRWA	CUDED DDICUT DED (COAIAO)	5600	14000	Column Anode	
TC07-11SRWA	SUPER BRIGHT RED (GaAlAs)			Column Cathode	

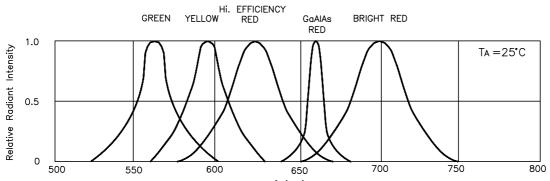
Electrical / Optical Characteristics at T_A =25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Bright Red High Efficiency Red Green Yellow Super Bright Red	700 625 565 590 660		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	Bright Red High Efficiency Red Green Yellow Super Bright Red	45 45 30 35 20		nm	IF=20mA	
С	Capacitance	Bright Red High Efficiency Red Green Yellow Super Bright Red	40 12 45 10 95		pF	VF=0V;f=1MHz	
V _F	Forward Voltage	Bright Red High Efficiency Red Green Yellow Super Bright Red	2.0 2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5 2.5	٧	IF=20mA	
I _R	Reverse Current	All	10		uA	VR = 5V	

Absolute Maximum Ratings at T_A=25°C

Parameter	Bright Red	High Efficiency Red	Green	Yellow	Super Bright Red	Units	
Power dissipation	120	105	105	105	100	mW	
DC Forward Current	25	30	25	30	30	mA	
Peak Forward Current [1]	150	150	150	150	150	mA	
Reverse Voltage	5	5	5	5	5	V	
Operating/Storage Temperature	-40°C To +85°C						
Lead Soldering Temperature [2]	260 °C For 5 Seconds						

- Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2. 4mm below package base.



 $\begin{array}{cc} \text{Wavelength} & \lambda \text{ (nm)} \\ \text{RELATIVE INTENSITY Vs. WAVELENGTH} \end{array}$

Bright Red

