Kingbright®

10.16mm (0.4INCH) FOUR DIGIT NUMERIC DISPLAYS

CA04-14 CA04-14-B12.0

Features

- •0.4 INCH DIGIT HEIGHT
- •LOWCURRENTOPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •I.C.COMPATIBLE.
- •CATEGORIZED FOR LUMINOUS INTENSITY,
 YELLOW AND GREEN CATEGORIZED FOR COLOR.
- •MECHANICALLY RUGGED.
- •STANDARD: GRAY FACE, WHITE SEGMENT.
- •FORMING PINS FOR POSITIONING THE SURFACE OF REFLECTOR WHICH IS 12mm FROM THE P.C. BOARD.

Package Dimensions & Internal Circuit Diagram

Description

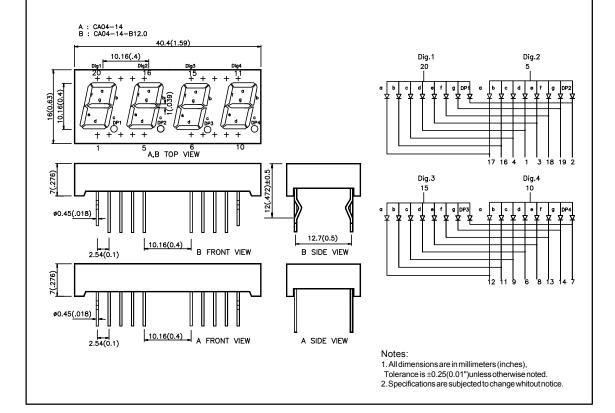
The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

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.



Selection Guide

Part No.	Dice	lv (ucd) @ 10 mA		Description	
		Min.	Max.	Description	
CA04-14HWA	BRIGHT RED (GaP)	560	1400	Common Anode, Rt Hand Decimal	
CA04-14EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	2200	5600	Common Anode, Rt Hand Decimal	
CA04-14GWA CA04-14GWA-B12.0	GREEN (GaP)	2200	5600	Common Anode, Rt Hand Decimal	
CA04-11YWA	YELLOW (GaAsP/GaP)	2200	5600	Common Anode, Rt Hand Decimal	
CA04-11SRWA	SUPER BRIGHT RED (GaAlAs)	5600	21000	Common Anode, Rt Hand Decimal	

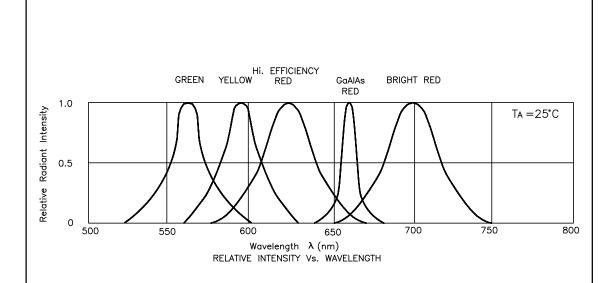
Electrical / Optical Characteristics at T $_{\text{A}}$ =25 $^{\circ}$ C

Symbol	Parameter	arameter Device Typ. M		Max.	Units	nits 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	
VF	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 2.5	V	IF=20mA	
I _R	Reverse Current	All	10		uA	VR = 5V	

Absolute Maximum Ratings at T $_{\text{A}}$ =25 $^{\circ}$ 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. 2.4mmbelowpackage base.



Bright Red

