

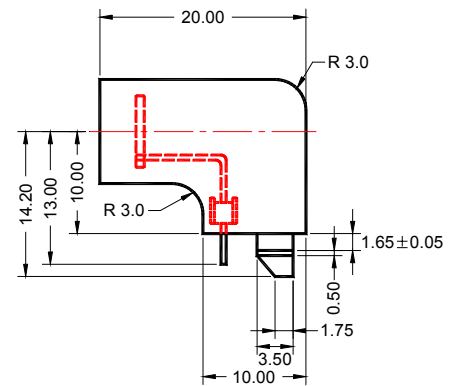
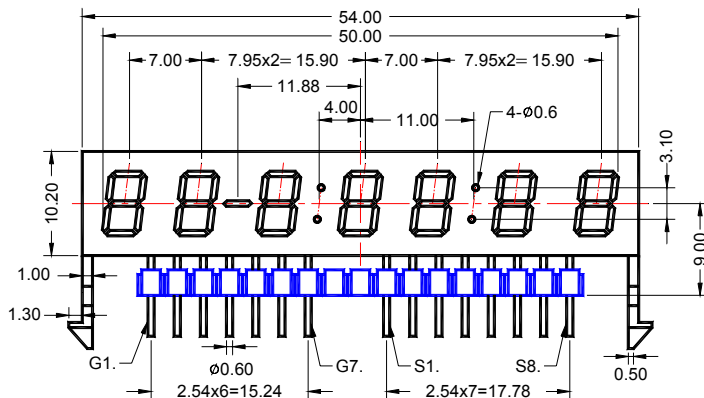
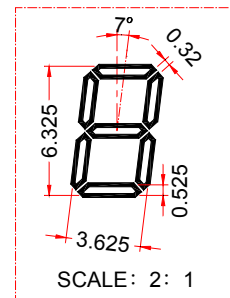
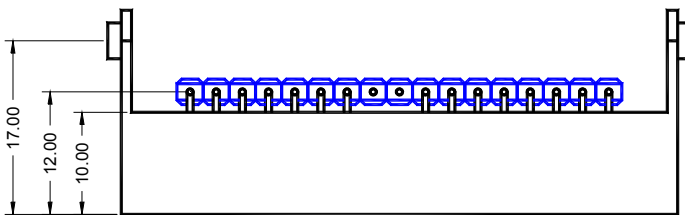
● **Features :**

1. 0.249 inch (6.325mm) digit height.
2. Continuous uniform segments.
3. Low power requirement.
4. Excellent characters appearance.
5. Solid state reliability.
6. Multiplex driver : column cathode com, and row anode com.
7. Single color

● **Description :**

1. The BCD-9030C is 6.325mm (0.249" ) digit height seven digit seven-segment display.
2. This product use yellow chips ,the yellow chips are made from GaAsP on GaP substrate.
3. This product have a black face and white segments.
4. The content percentage of lead (Pb) and cadmium (Cd) in lead PIN:Pb<0.001%;Cd:0%.

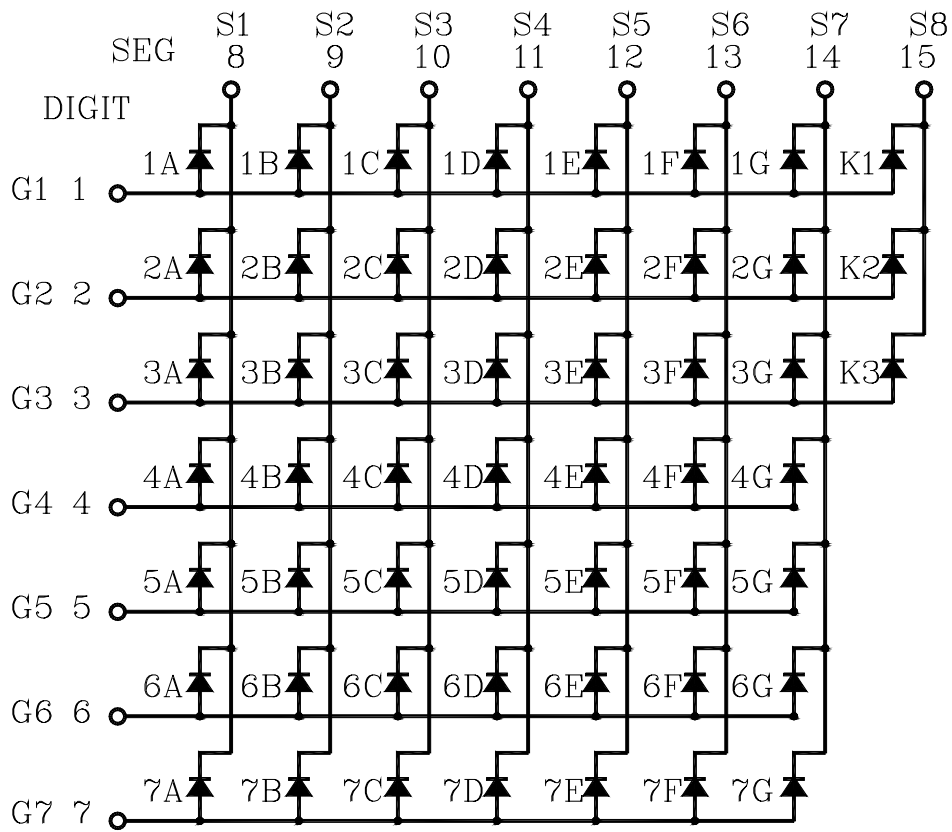
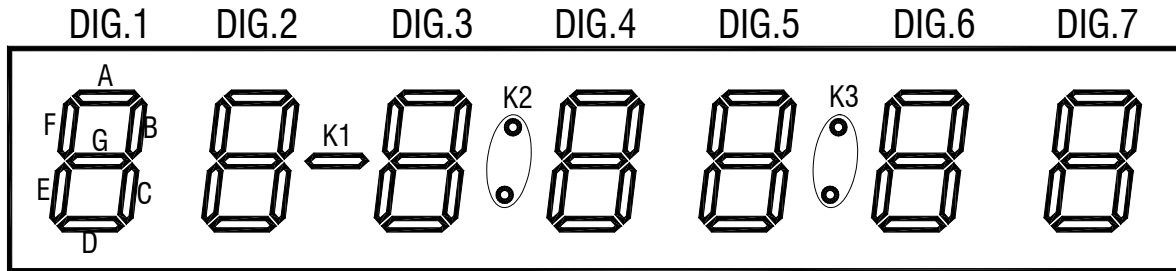
● Package Dimensions :



Notes:

1. All dimensions are in millimeters(inches).
2. Tolerance is  $\pm 0.25\text{mm}(.01\text{'})$  unless otherwise specified.
3. Specifications are subject to change without notice.

● Internal Circuit Diagram :



—|<— Yellow Chip

● **Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Rating	Unit
Power Dissipation Per Segment	Pd	80	mW
Forward Current Per Segment	I <sub>F</sub>	30	mA
Peak Forward Current Per Segment	I <sub>FP</sub> (Duty 1/10, 1KHZ)	150	mA
Reverse Voltage Per Segment	V <sub>R</sub>	5	V
Operating Temperature	Topr	-40°C~80°C	-
Storage Temperature	Tstg	-40°C~85°C	-
Soldering Temperature (1/16" From Body)	Tsol	260°C For 5 Seconds	-

● **Electrical And Optical Characteristics(Ta=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage Per Segment	V <sub>f</sub>	I <sub>F</sub> =10mA	-	2.0	2.5	V
Luminous Intensity Per Segment	I <sub>v</sub>	I <sub>F</sub> =10mA	-	2.0	-	mcd
Reverse Current Per Segment	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	100	μA
Peak Wave Length	λ <sub>p</sub>	I <sub>F</sub> =10mA	-	589	-	nm
Dominant Wave Length	λ <sub>d</sub>	I <sub>F</sub> =10mA	586	-	594	nm
Spectral Line Half-width	Δλ	I <sub>F</sub> =10mA	-	35	-	nm

## ● Typical Electro-Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

Fig.1 Relative Radiant Intensity VS. Wavelength

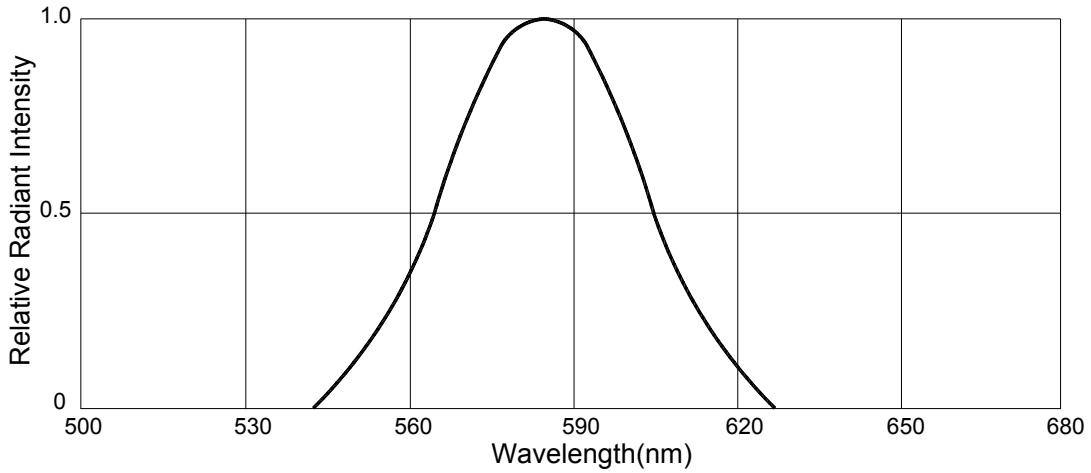


Fig.2 Forward Current VS. Forward Voltage

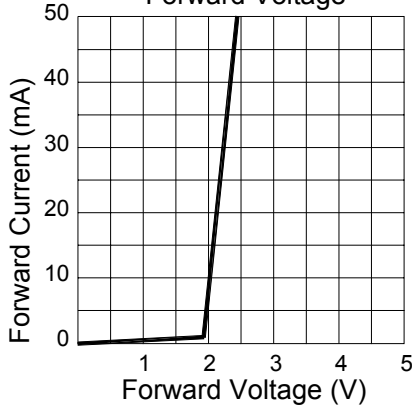


Fig.3 Relative Luminous Intensity VS. Ambient Temperature

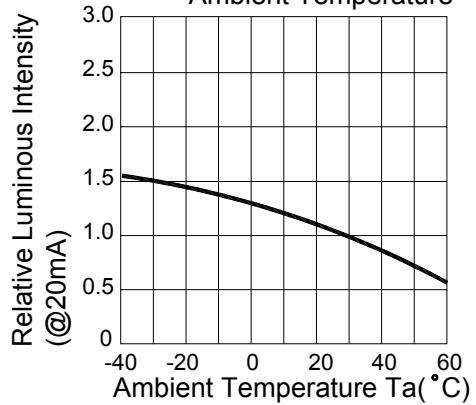


Fig.4 Relative Luminous Intensity VS. Forward Current

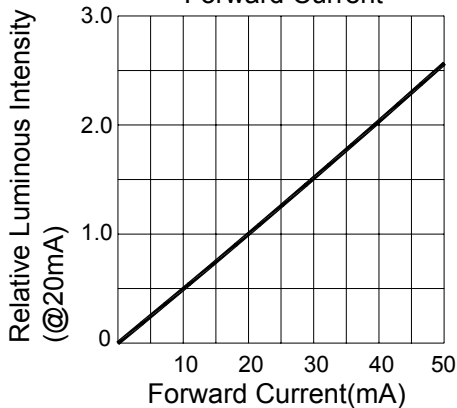


Fig.5 Forward Current Derating Curve VS. Ambient Temperature

