

# Specification for Approval

• DEVICE NUMBER: BA-5Y5UD

SAMPLES ATTACHED AREA

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2015/5/5	1.0	1.0	1.0	1.0					Initial Released
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### FOR CUSTOMER'S APPROVAL STAMP OR SIGNATURE

APPROVED	PURCHASE	MANUFACTURE	QUALITY	ENGINEERING

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ISSUED	APPROVED	PREPARED
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BA-5Y5UD

### Features :

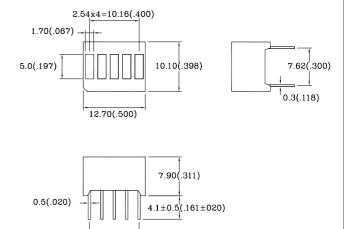
- 1. Emitting area : 5.0×1.7×5 (mm)
- 2. Low power requirement.
- 3. Excellent characters appearance.
- 4. Solid state reliability.
- 5. Categorized for luminous intensity.
- 6. Universal pin out.

### Description :

- 1. The BA-5Y5UD is 5 bar graph array display.
- 2. This product use yellow chips.
- 3. This product have a black face and white segments.
- 4. This product doesn't contain restriction substance, comply ROHS standard.

## Package Dimensions :

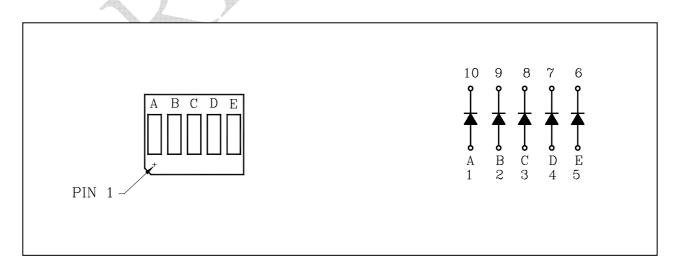
2.54x4=10.16(.400)



#### Notes:

- 1. All dimensions are in millimeters(inches).
- 2. Tolerance is ±0.25mm(.01")unless otherwise specified.
- 3. Specifications are subject to change without notice.

## Internal Circuit Diagram :





BA-5Y5UD

## ■ 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	$V_R$	.5	<
Operating Temperature	Topr	-40℃~85℃	-
Storage Temperature	Tstg	-40℃~85℃	-

# ■ Electrical And Optical Characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage Per Segment	Vf	I <sub>F</sub> =10mA	-	2.0	2.5	V
Luminous Intensity Per Segment	lv	I <sub>F</sub> =10mA	-	3.0	-	mcd
Reverse Current Per Segment	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	100	μΑ
Peak Wave Length	λр	I <sub>F</sub> =20mA	-	589	-	nm
Dominant Wave Length	λd	I <sub>F</sub> =20mA	585	-	594	nm
Spectral Line Half-width	Δλ	I <sub>F</sub> =20mA	-	35	-	nm



BA-5Y5UI

## Typical Electro-Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

Fig.1 Relative Radiant Intensity VS. Wavelength

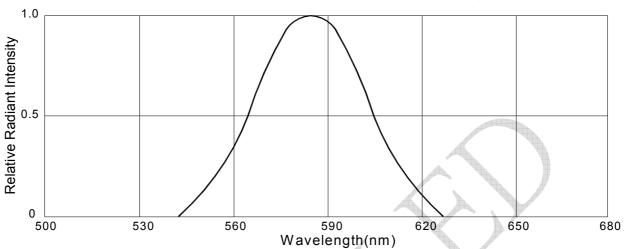


Fig.2 Forward Current VS.
Forward Voltage

(Au

40

40

30

1

20

1

20

1

2

40

1

20

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Fig.4 Relative Luminous Intensity VS.
Forward Current

3.0

2.0

1.0

1.0

2.0

10

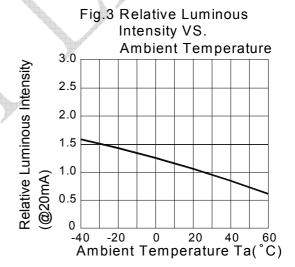
20

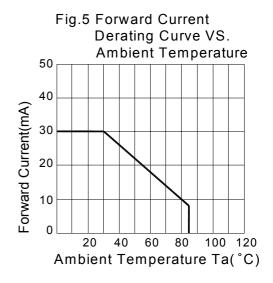
30

40

50

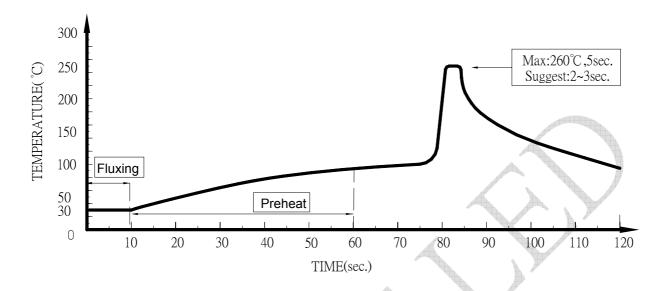
Forward Current(mA)





BA-5Y5UD

## Dip Soldering



- Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
- 2. DIP soldering and hand soldering should not be done more than one time.
- 3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temerature.
- 4. Avoid rapid cooling during temperature ramp-down process
- 5. Although the soldering condition is recommended above, soldering at the lowest possible temperature is feasible for the LEDs

### IRON Soldering

300°C Within 3 sec., One time only.