

Specification for Approval

SAMPLES
ATTACHED AREA

- **DEVICE NUMBER: BD-A54UBRI**
- **CUSTOMER:**

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2020/11/28	1.0	1.0	1.0	1.0								Initial Released

FOR CUSTOMER'S APPROVAL STAMP OR SIGNATURE

APPROVED	PURCHASE	MANUFACTURE	QUALITY	ENGINEERING

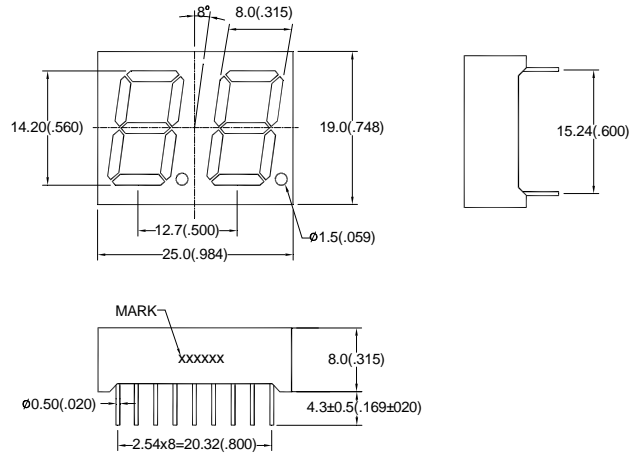
● **Features :**

1. 0.56 inch (14.20mm) Digit Height.
2. Continuous uniform segments.
3. Low power requirement.
4. Excellent characters appearance.
5. Solid state reliability.
6. Categorized for luminous intensity.
7. Direct drive common anode.

● **Description :**

1. The BD-A54UBRI is a 14.2mm(0.56") high dual digit seven segments display. This product use super red chips,.
2. This product have a gray face and white segments.
3. This product doesn't contain restriction substance, comply ROHS standard.

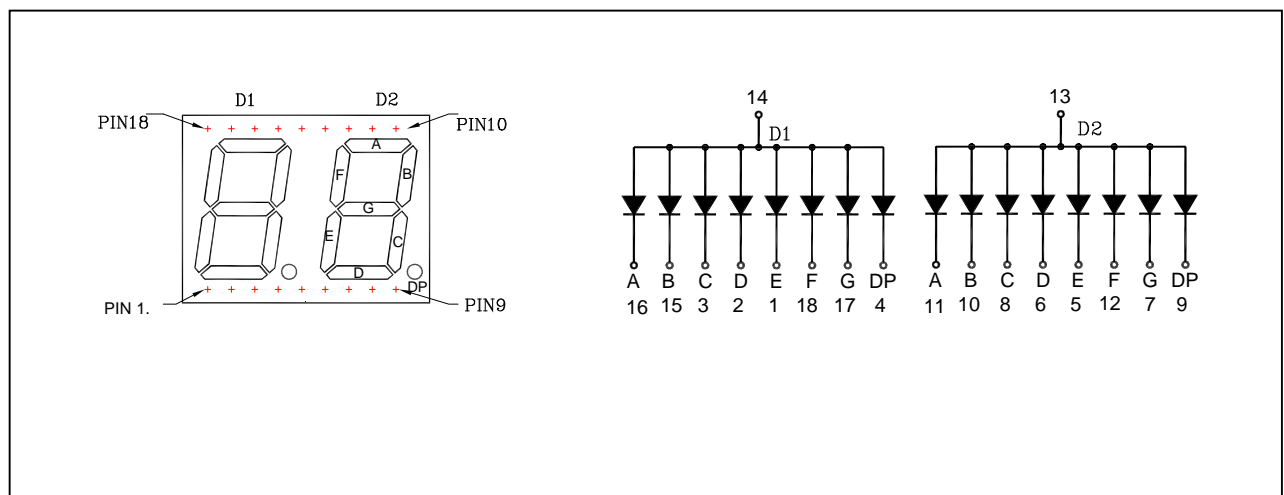
● **Package Dimensions :**



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 :**



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

Parameter	Symbol	Rating	Unit
Power Dissipation Per Segment	Pd	80	mW
Forward Current Per Segment	I _F	30	mA
Peak Forward Current Per Segment	I _{FP} (Duty 1/10, 1KHZ)	150	mA
Reverse Voltage Per Segment	V _R	5	V
Operating Temperature	Topr	-40°C ~85°C	-
Storage Temperature	Tstg	-40°C ~85°C	-

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage Per Segment	V _f	I _F =10mA	-	2.0	2.5	V
Luminous Intensity Per Segment	I _v	I _F =10mA	-	20	-	mcd
Reverse Current Per Segment	I _R	V _R =5V	-	-	100	μA
Peak Wave Length	λ _p	I _F =20mA	-	645	-	nm
Dominant Wave Length	λ _d	I _F =20mA	627	-	637	nm
Spectral Line Half-width	Δλ	I _F =20mA	-	22	-	nm

● **Typical Electro-Optical Characteristics Curves**

(25°C Ambient Temperature Unless Otherwise Noted)

Fig.1 Relative Radiant Intensity VS. Wavelength

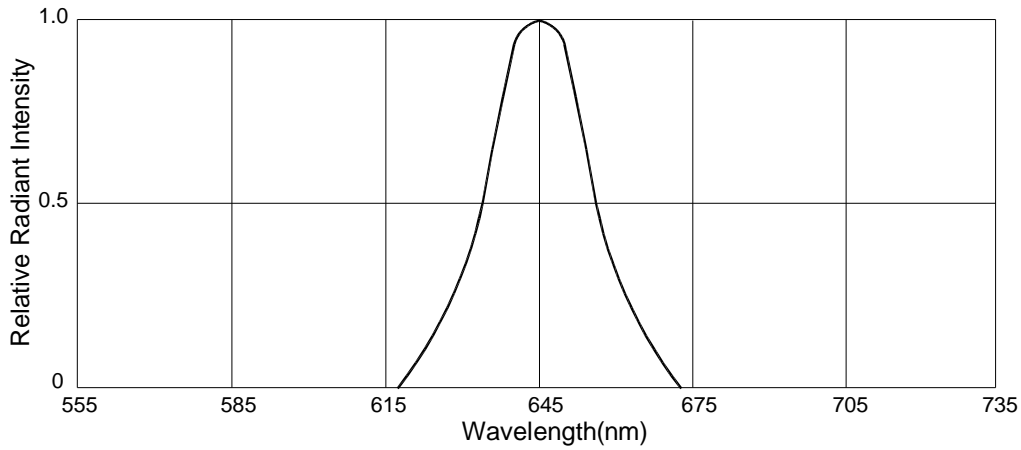


Fig.2 Forward Current VS. Forward Voltage

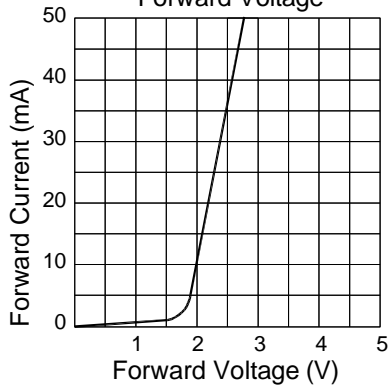


Fig.3 Relative Luminous Intensity VS. Ambient Temperature

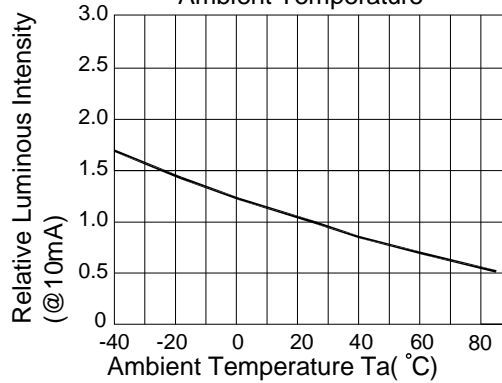


Fig.4 Relative Luminous Intensity VS. Forward Current

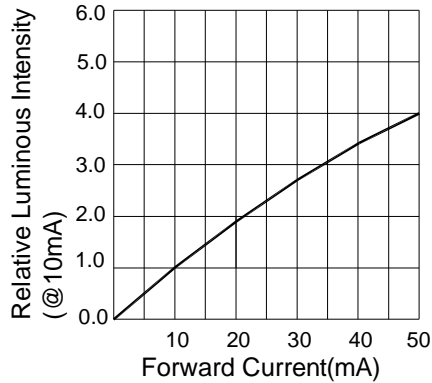
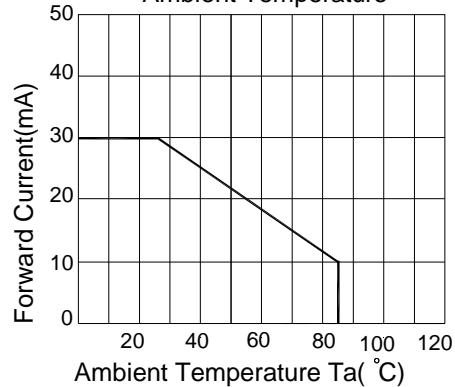
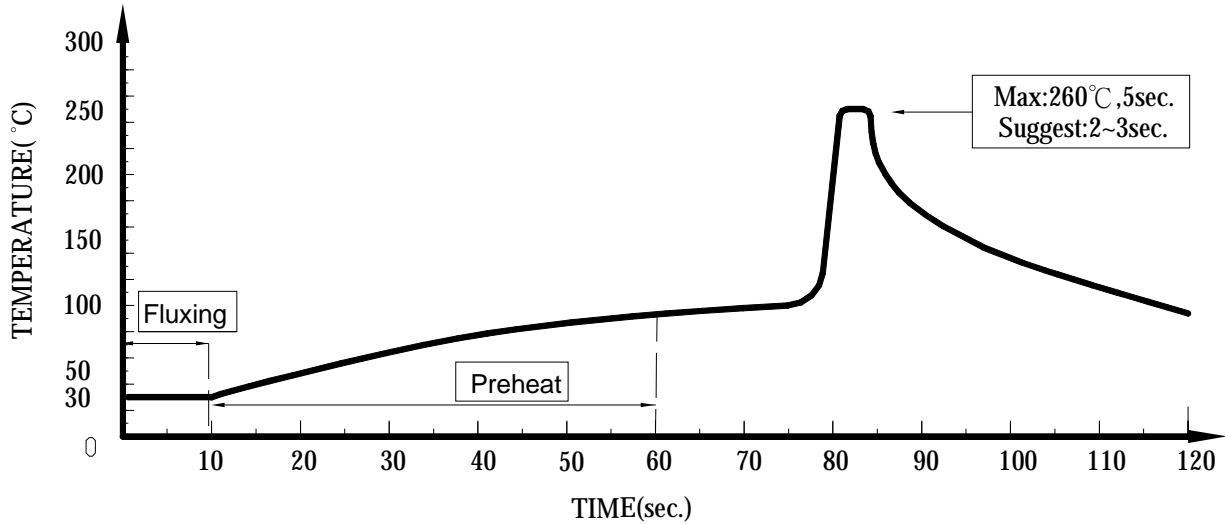


Fig.5 Forward Current Derating Curve VS. Ambient Temperature



● **Dip Soldering**



1. 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 temperature.
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**

350°C Within 3 sec., One time only.

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