

Specification for Approval

DEVICE NUMBER: BV-M40UBRI-LC2.5

CUSTOMER:

SAMPLES ATTACHED AREA

				_				
PAGE DATE	1	2	3	4				CONTENTS
2017/07/28	1.0	1.0	1.0	1.0				Initial Released
2021/5/8	1.1	1.1	1.1	1.1				Modify Package Dimensions and Typical Electro-Optical Characteristics Curves
					/			

FOR CUSTOMER'S APPROVAL STAMP OR SIGNATURE

APPROVED	PURCHASE	MANUFACTURE	QUALITY	ENGINEERING

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Approved By	Confirmed By	Prepared By
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BV-M40UBRRI-LC2.5

Features :

- 1. 0.4 inch (10.16mm) Digit Height.
- 2. Continuous uniform segments.
- 3. Low power requirement.
- 4. Excellent characters appearance.
- 5. Solid state reliability.
- 6. Categorized for luminous intensity.
- 7. Multiplex drive common anode.

Description :

- The BV-M40UBRI –LC2.5 is a 10.16mm (0.4")
 high five digit seven segments display.
 This product use super red chip
 This product have a gray face and white segments.
- This product doesn't contain restriction substance, comply ROHS standard.

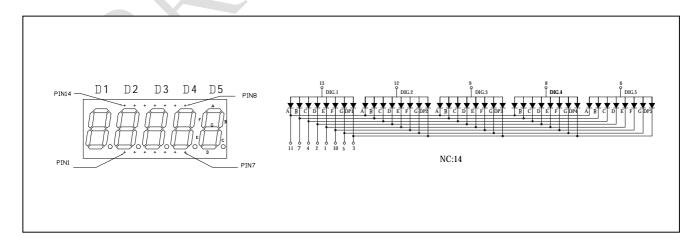
Package Dimensions: 36 (1.417) 28.4 (1.118) 1.6276) 1.6391 1.6391

Notes:

2.5±0.5E.098±.020

- 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 :





BV-M40UBRRI-LC2.5

■ 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.	Тур.	Max.	Unit
Forward Voltage Per Segment	Vf	I _F =10mA	-	2.0	2.5	V
Luminous Intensity Per Segment	lv	I _F =10mA	-	20	-	mcd
Reverse Current Per Segment	I _R	V _R =5V	-	-	100	μΑ
Peak Wave Length	λр	I _F =20mA	-	645	-	nm
Dominant Wave Length	λd	I _F =20mA	627	-	637	nm
Spectral Line Half-width	Δλ	I _F =20mA	-	22	-	nm

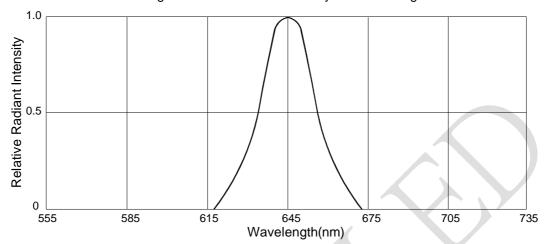


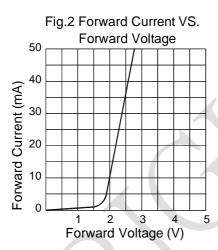
BV-M40UBRRI-LC2.5

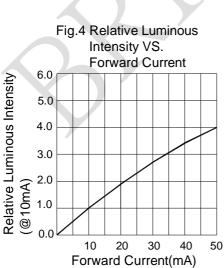
Typical Electro-Optical Characteristics Curves

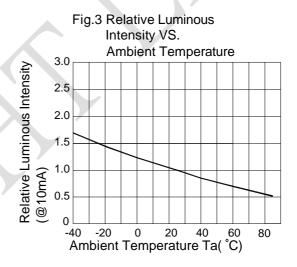
(25°C Ambient Temperature Unless Otherwise Noted)

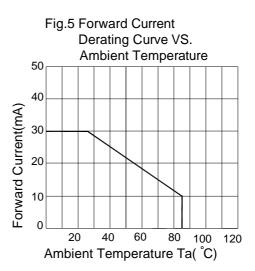
Fig.1 Relative Radiant Intensity VS. Wavelength





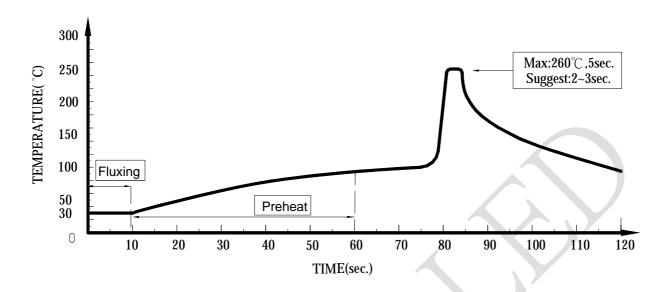






BV-M40UBRRI-LC2.5

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 temperature.
- 4. Avoid rapid cooling during temperature ramp-down process
- Although the soldering condition is recommended above,soldering at the lowest possible temperature is feasible for the LEDs

IRON Soldering

350℃ Within 3 sec., One time only.