

# Specification for Approval

• DEVICE NUMBER: BQ-M576RI-E-LC4

SAMPLES ATTACHED AREA

PAGE DATE	1	2	3	4						CONTENTS
2013/3/19	1.0	1.0	1.0	1.0						Initial Released
2015/7/28	1.1									Modify dimensions
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#### FOR CUSTOMER'S APPROVAL STAMP OR SIGNATURE

APPROVED	PURCHASE	MANUFACTURE	QUALITY	ENGINEERING
	7			

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BQ-M576RI-E-LC4

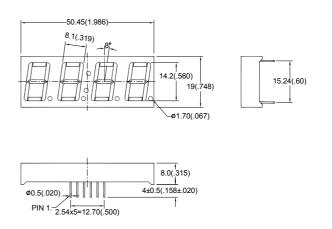
### Features :

- 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. Multiplex drive common anode.

### Description :

- The BQ-M576RI-E-LC4 is a 14.20mm(0.56")high four digit seven segments display.
- 2. This product use super red chips,
- This product have a gray face and white segments.
- This product doesn't contain restricted. substance, comply RoHS standard.

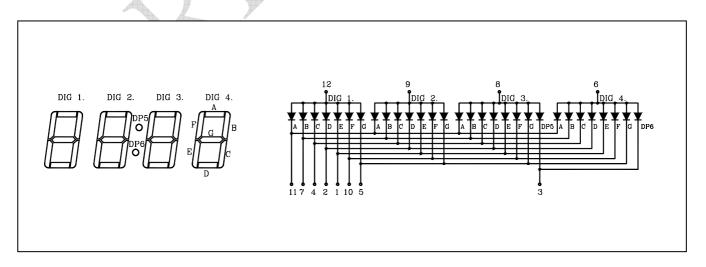
### Package Dimensions :



#### Notes:

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

## Internal Circuit Diagram :





BQ-M576RI-E-LC4

## ■ 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	<b>V</b>
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	-	1.7	2.5	٧
Luminous Intensity Per Segment	lv	I <sub>F</sub> =10mA	-	3.5	-	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	-	660	-	nm
Dominant Wave Length	λd	I <sub>F</sub> =20mA	638	-	648	nm
Spectral Line Half-width	Δλ	I <sub>F</sub> =20mA	-	20	-	nm

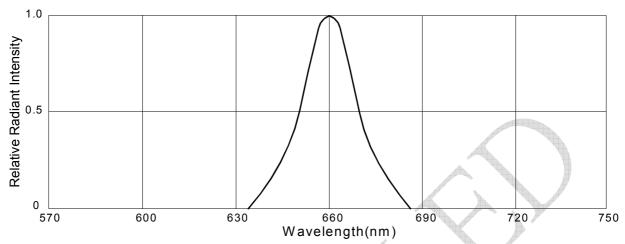


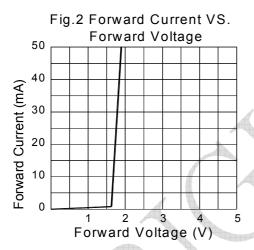
BQ-M576RI-E-LC4

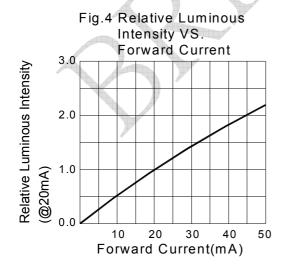
### Typical Electro-Optical Characteristics Curves

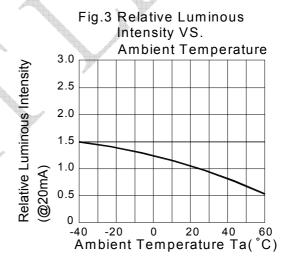
(25°C Ambient Temperature Unless Otherwise Noted)

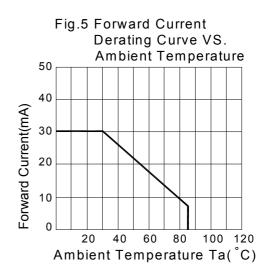
Fig.1 Relative Radiant Intensity VS. Wavelength





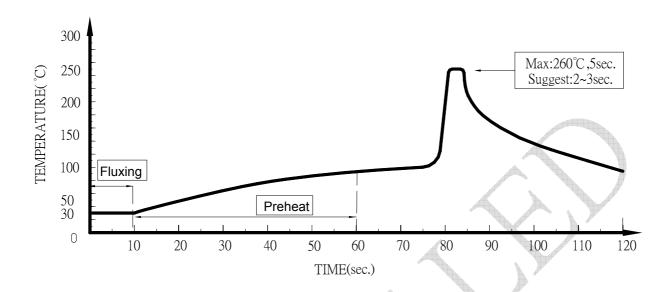






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### Dip Soldering



- 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
- 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.