

Specification for Approval

• DEVICE NUMBER: BQ-M544RE-LC3.8

SAMPLES ATTACHED AREA

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2015/5/22	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
4				

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BQ-M544RE-LC3.8

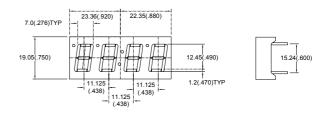
Features :

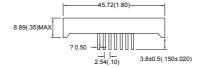
- 1. 0.49 inch (12.45mm) Digit Height.
- 2. Continuous uniform segments.
- 3. Low power requirement.
- 4. Excellent characters appearance.
- 5. Solid state reliability.
- 6. Categorized for luminous intensity.
- 7. Multiplex drive common anode.

Description :

- The BQ-M544RE-LC3.8 is a 12.45mm (0.49")high four digit seven segments display.
- 2. This product use hi-eff red chips.
- 3. This product have a black face and red segments.
- 4. This product doesn't contain restricted substance, comply ROHS standard.

Package Dimensions :

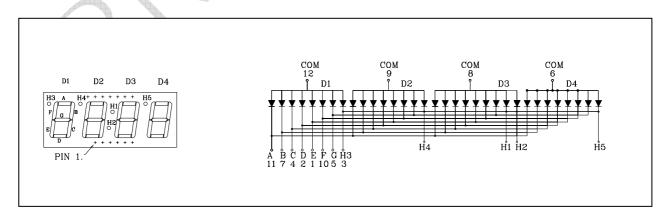




Notes:

- 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 :





BQ-M544RE-LC3.8

● 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℃~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 _F =10mA	-	1.9	2.5	٧
Luminous Intensity Per Segment	lv	I _F =10mA	-	2.5	-	mcd
Reverse Current Per Segment	I _R	V _R =5V	-	-	100	μΑ
Peak Wave Length	λр	I _F =20mA	-	640	-	nm
Dominant Wave Length	λd	I _F =20mA	626	-	636	nm
Spectral Line Half-width	Δλ	I _F =20mA	-	40	-	nm

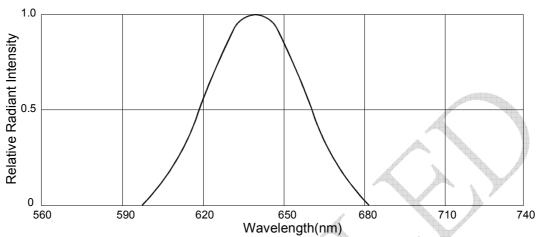


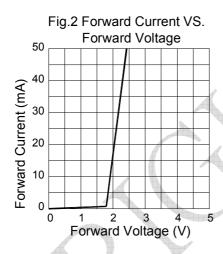
BQ-M544RE-LC3.8

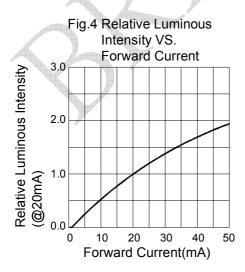
Typical Electro-Optical Characteristics Curves

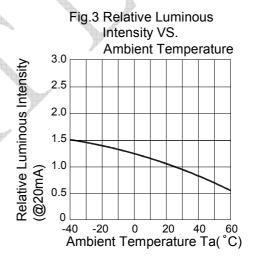
(25°C Ambient Temperature Unless Otherwise Noted)

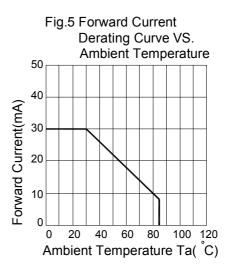
Fig.1 Relative Radiant Intensity VS. Wavelength





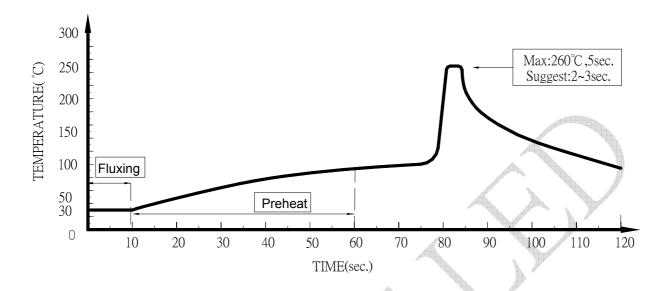






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Dip Soldering



- 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 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.