

Specification for Approval

• DEVICE NUMBER: BQ-N32UBRE-A

SAMPLES ATTACHED AREA

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2015/3/28	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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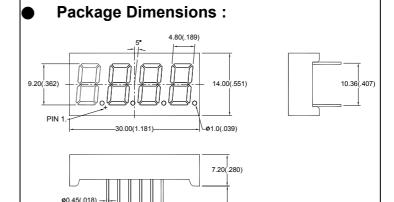
BQ-N32UBRE-A

Features :

- 1. 0.36 inch (9.20mm) 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 cathode.

Description :

- 1. The BQ-N32UBRE-A is a 9.20mm (0.36") high four digit seven segments display.
- 2. This product use super red chips,
- 3. This product have a black face and red segments.
- 4. This product doesn't contain restricted. substance, comply ROHS standard.



4.6±0.5 (.181±.020)

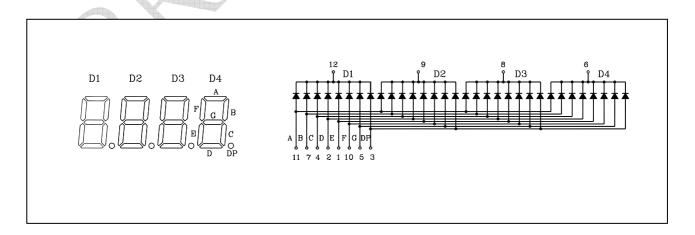
Notes:

1. All dimensions are in millimeters(inches).

2.54x5=12.70(.500)

- 2. Tolerance is ±0.25mm(.01")unless otherwise specified.
- 3. Specifications are subject to change without notice.

Internal Circuit Diagram :





BQ-N32UBRE-A

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℃~80℃	-
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	-	2.0	2.5	٧
Luminous Intensity Per Segment	lv	I _F =10mA	-	12.0	-	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

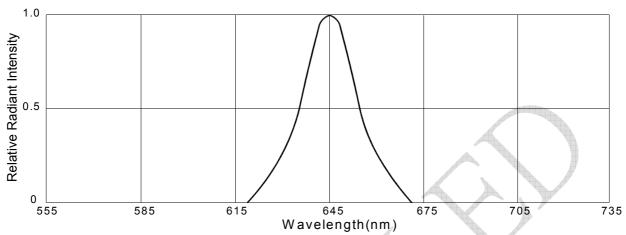


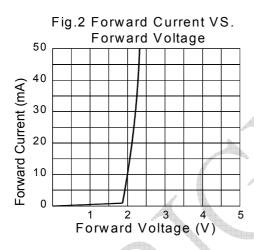
BQ-N32UBRE-A

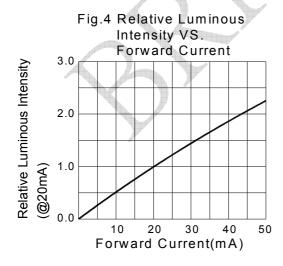
Typical Electro-Optical Characteristics Curves

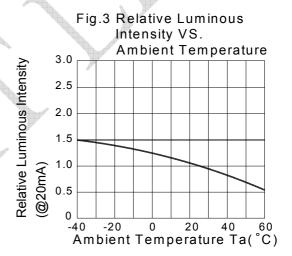
(25°C Ambient Temperature Unless Otherwise Noted)

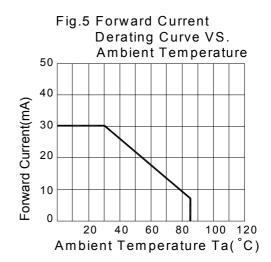
Fig.1 Relative Radiant Intensity VS. Wavelength





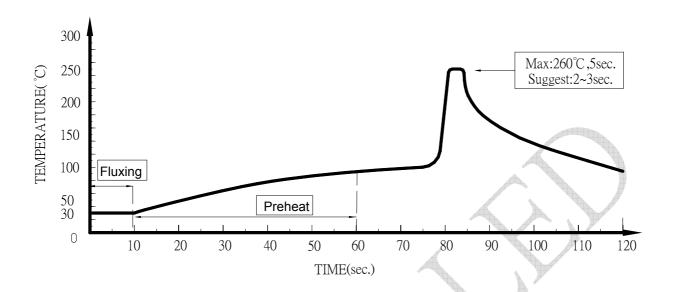






BQ-N32UBRE-A

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 $^{\circ}$ C Within 3 sec.,One time only.