



QBAS80XXZ

0.80" Single Digit
Alphanumeric Display

QT-Brightek Display Series

0.80" Single Digit Alphanumeric Display

Part No.: QBAS80XXZ

XX: Color Code
Z = 1: Common Cathode
Z = 0: Common Anode

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	Version# 2.1	



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Introduction

Feature:

- 0.80" Single digit sixteen-segment display
- Low power consumption
- Packed in foam
- Gray face and white segment
- AllInGaP Technology for R, S, Y, O, AG
- InGaN Technology for IG, IB
- XX= color; Z=1: common cathode or 0: common anode

Description:

These 0.80" single digit sixteen-segment displays are made with white segment and gray surface. The viewing distance is up to seven meters.

Application:

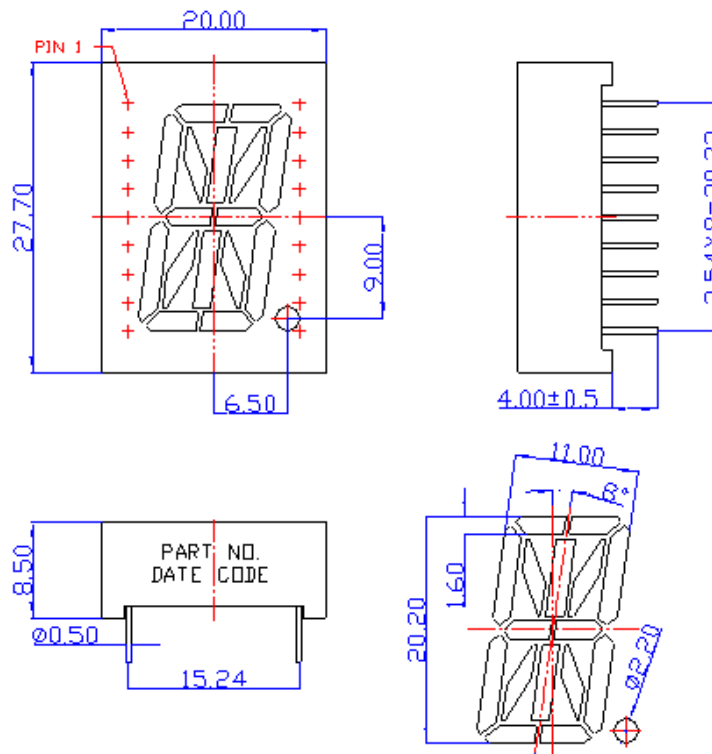
- Instrument panels
- Indoor/Outdoor display board
- Audio equipment

Certification & Compliance:

- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.25mm

Electrical / Optical Characteristic (Ta=25 °C)

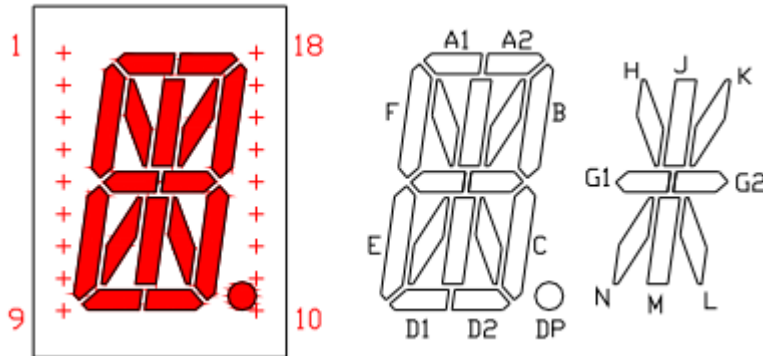
Product		Material	Color	I _F (mA)	V _F (V)		λ _D (nm)			λ _P (nm)	I _V (mcd)
CC	CA				Typ.	Max.	Min.	Typ.	Max.	Typ.	Typ.
QBAS80R1	QBAS80R0	AllnGaP	Red	20	2.1	2.4	619	624	629	632	60
QBAS80S1	QBAS80S0	AllnGaP	Deep Red	20	2.1	2.4	635	639	648	650	20
QBAS80Y1	QBAS80Y0	AllnGaP	Yellow	20	2.1	2.4	585	590	595	593	60
QBAS80O1	QBAS80O0	AllnGaP	Orange	20	2.0	2.4	600	606	610	612	60
QBAS80AG1	QBAS80AG0	AllnGaP	Green	20	2.1	2.4	567	571	576	573	20
QBAS80IG1	QBAS80IG0	InGaN	True Green	20	2.8	3.2	515	525	530	-	250
QBAS80IB1	QBAS80IB0	InGaN	Blue	20	3.0	3.4	460	465	475	-	60

Absolute Maximum Rating

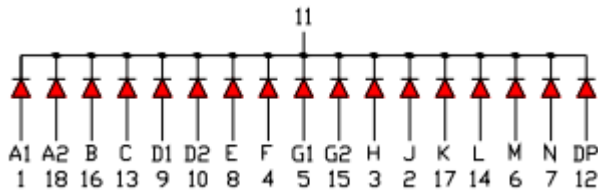
Material	P _d (mW)	I _F (mA)	I _{PF} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
AllnGaP	48	20	40	5	-40 to +85	-40 to +85
InGaN	120	30	100	5	-40 to +85	-40 to +85

*Duty 1/10 @ 1KHz

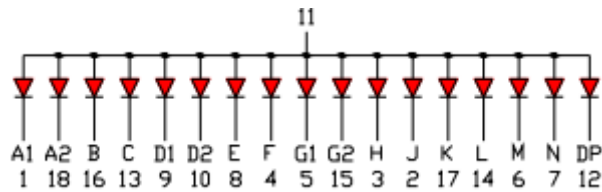
Pin Configuration



Common Cathode (QBAS80XX1)

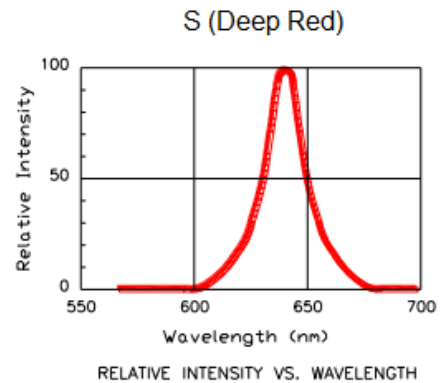
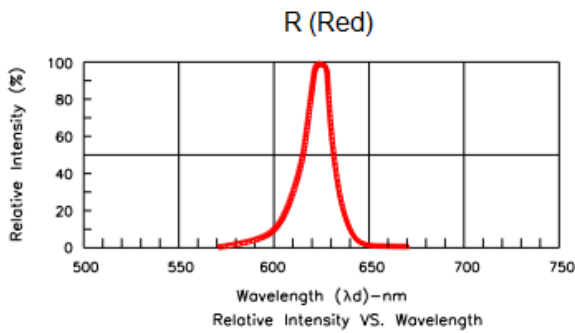
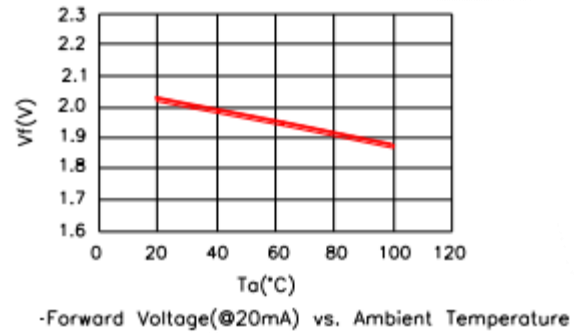
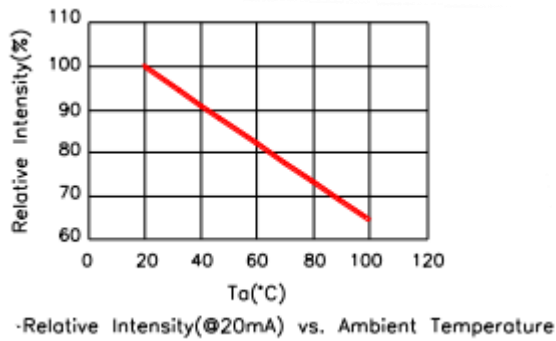
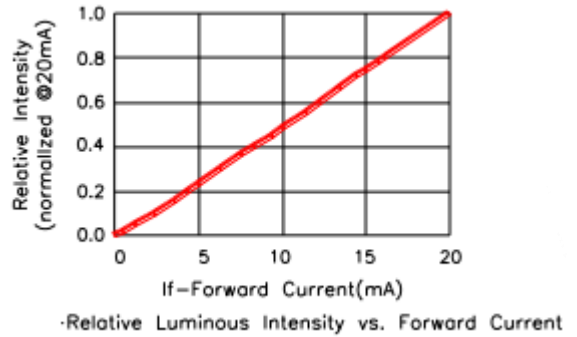
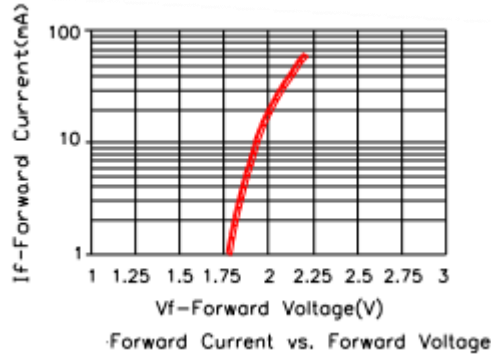


Common Anode (QBAS80XX0)

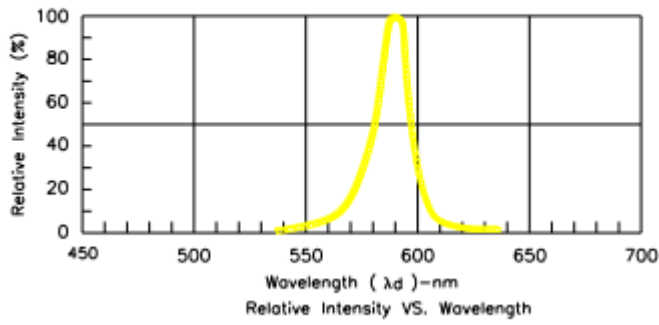


Characteristic Curves

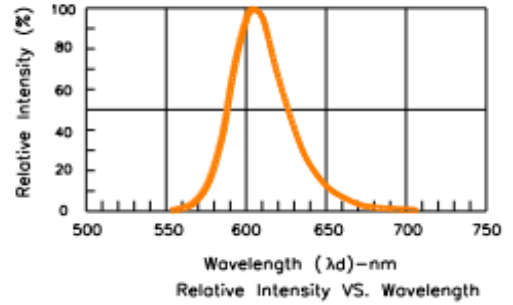
AllnGaP (R/S/Y/O/AG)



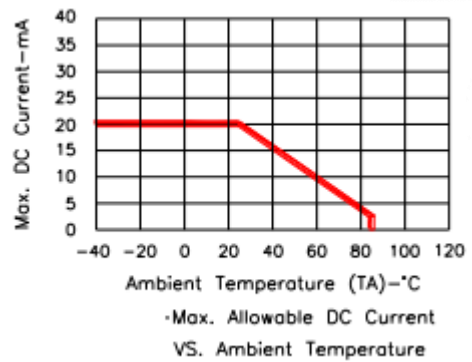
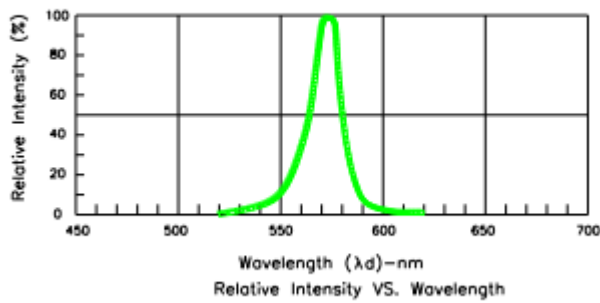
Y (Yellow)



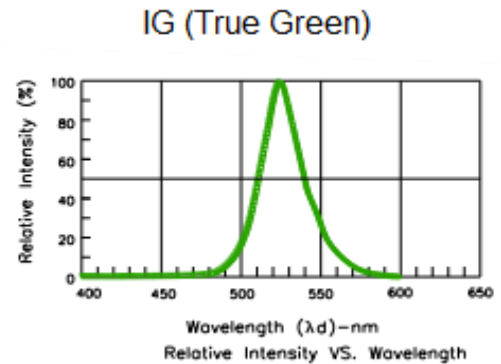
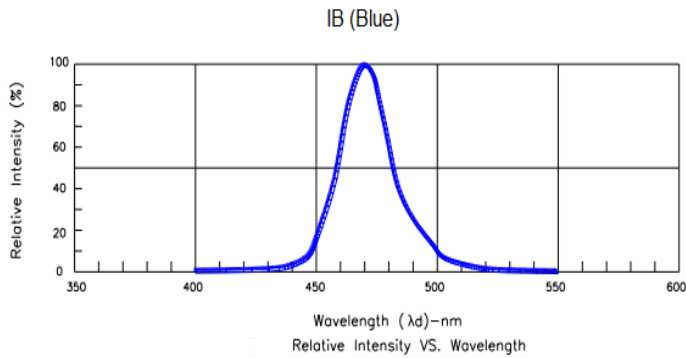
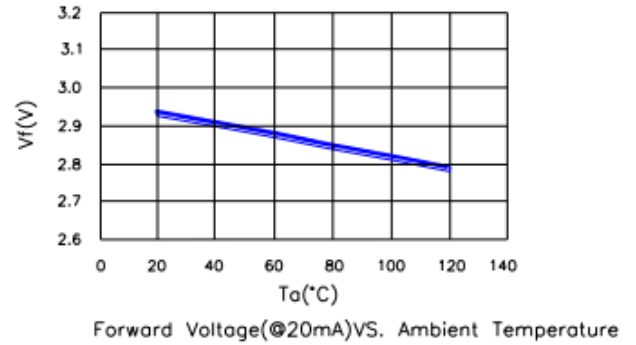
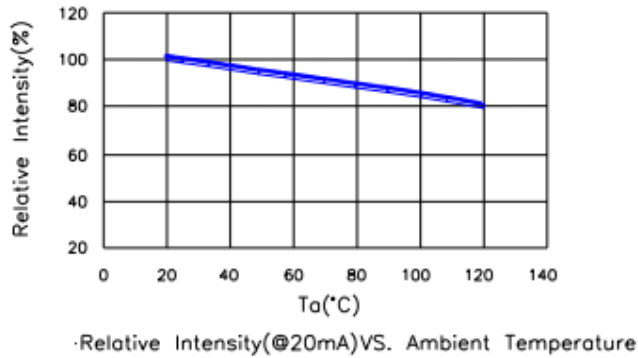
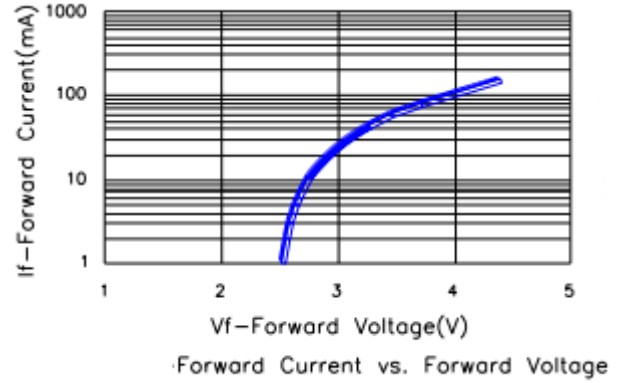
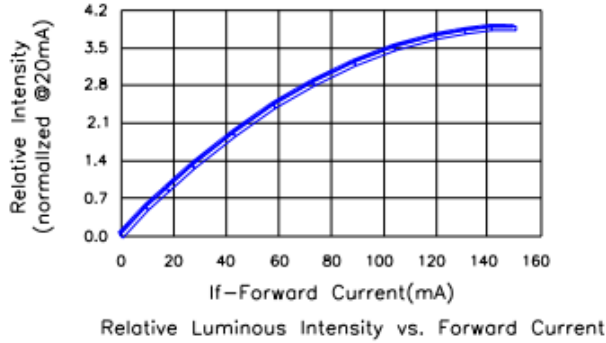
O (Orange)

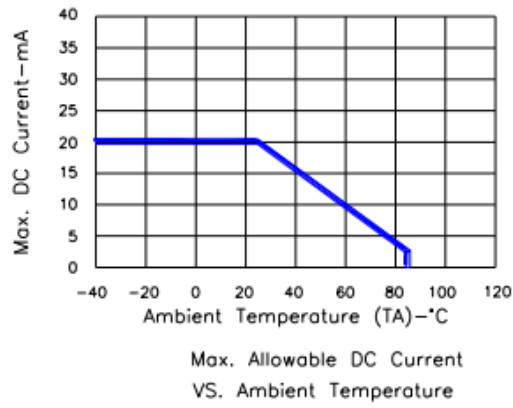


AG (Green)

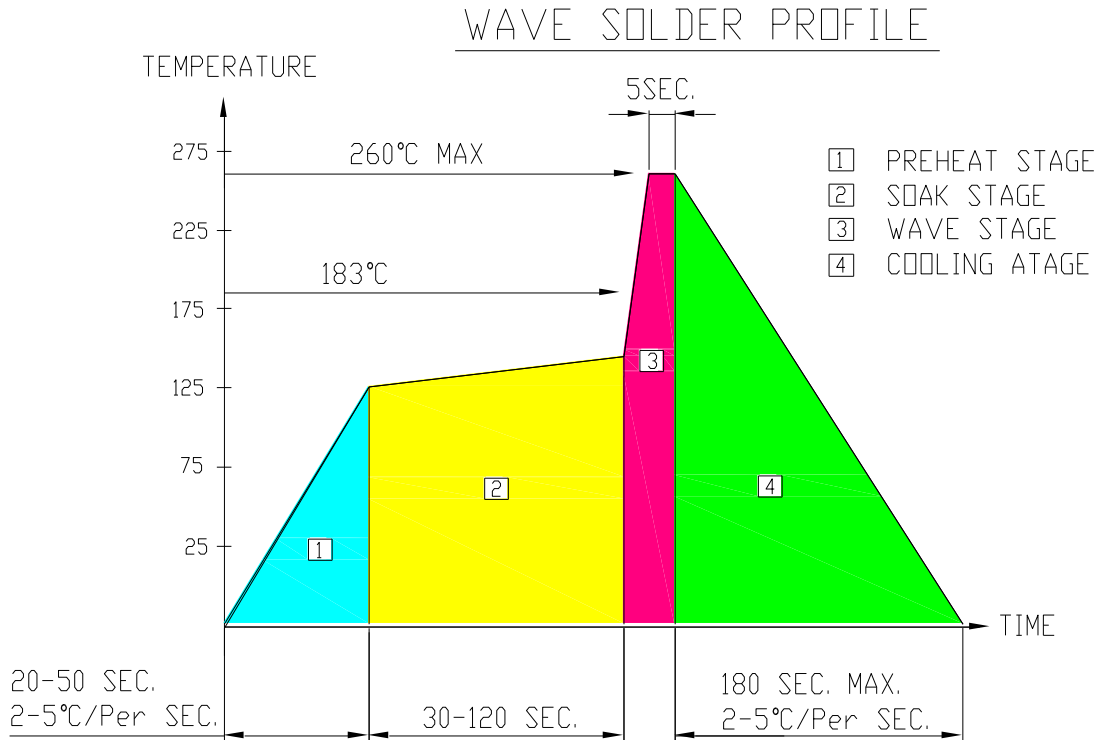


InGaN (IG/IB)



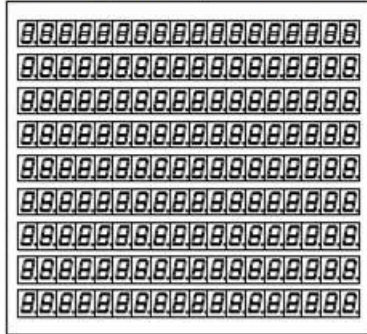


Soldering Profile

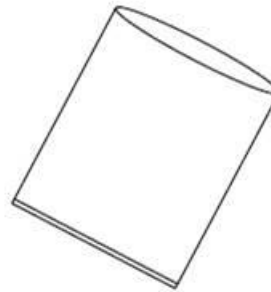
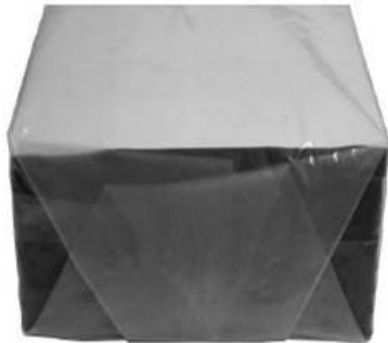


Packing

162 PCS (18X 9) / 1 White Polyform

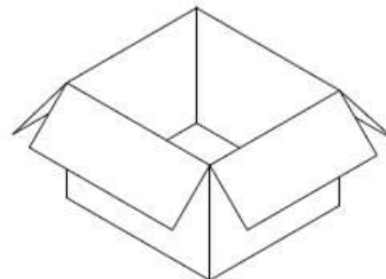


13 White Polyform / 1 BAG
2106 PCS / 1 Inner Carton



BAG SIZE : 450X410X760

2106 PCS / 1 BAG / 1 Outer Carton



OUTER BOX SIZE : 430 x 390 x 300 mm

**Ordering Information**

Product		Orderable Part #		Spec Range	Quantity per foam
CC	CA	CC	CA		
QBAS80R1	QBAS80R0	QBAS80R1	QBAS80R0	Iv=60mcd typ. @ 20mA, $\lambda_D=624\text{nm}$ typ.	162pcs
QBAS80S1	QBAS80S0	QBAS80S1	QBAS80S0	Iv=20mcd typ. @ 20mA, $\lambda_D=639\text{nm}$ typ.	162pcs
QBAS80Y1	QBAS80Y0	QBAS80Y1	QBAS80Y0	Iv=60mcd typ. @ 20mA, $\lambda_D=590\text{nm}$ typ.	162pcs
QBAS80O1	QBAS80O0	QBAS80O1	QBAS80O0	Iv=60mcd typ. @ 20mA, $\lambda_D=606\text{nm}$ typ.	162pcs
QBAS80AG1	QBAS80AG0	QBAS80AG1	QBAS80AG0	Iv=20mcd typ. @ 20mA, $\lambda_D=571\text{nm}$ typ.	162pcs
QBAS80IG1	QBAS80IG0	QBAS80IG1	QBAS80IG0	Iv=250mcd typ. @ 20mA, $\lambda_D=525\text{nm}$ typ.	162pcs
QBAS80IB1	QBAS80IB0	QBAS80IB1	QBAS80IB0	Iv=60mcd typ. @ 20mA, $\lambda_D=465\text{nm}$ typ.	162pcs



Revision History

Description:	Revision #	Revision Date
New Release of QBAS80XXZ_series	V1.0	02/02/2012
Update format / Add more color options	V2.0	09/28/2015
Update spec and packing method / add λ _P	V2.1	10/26/2022

Disclaimer

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1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.