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[QBASS40YG0](#)

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QBASS40XXZ

0.40" Single Digit
Alphanumeric SMD Display

QT-Brightek SMD Display Series

0.40" Single Digit Alphanumeric Display

Part No.: QBASS40YGZ

Z= 1: Common Cathode

Z = 0: Common Anode

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Introduction

Feature:

- 0.40" Single digit fourteen segments SMD display
- Low power consumption
- Packed in tape and reel
- White segment and grey surface
- GaP Green
- X=1: Common Cathode or 0: Common Anode

Description:

These 0.40" Single digit fourteen segments displays are made with white segment and gray surface. The viewing distance is up to seven meters.

Application:

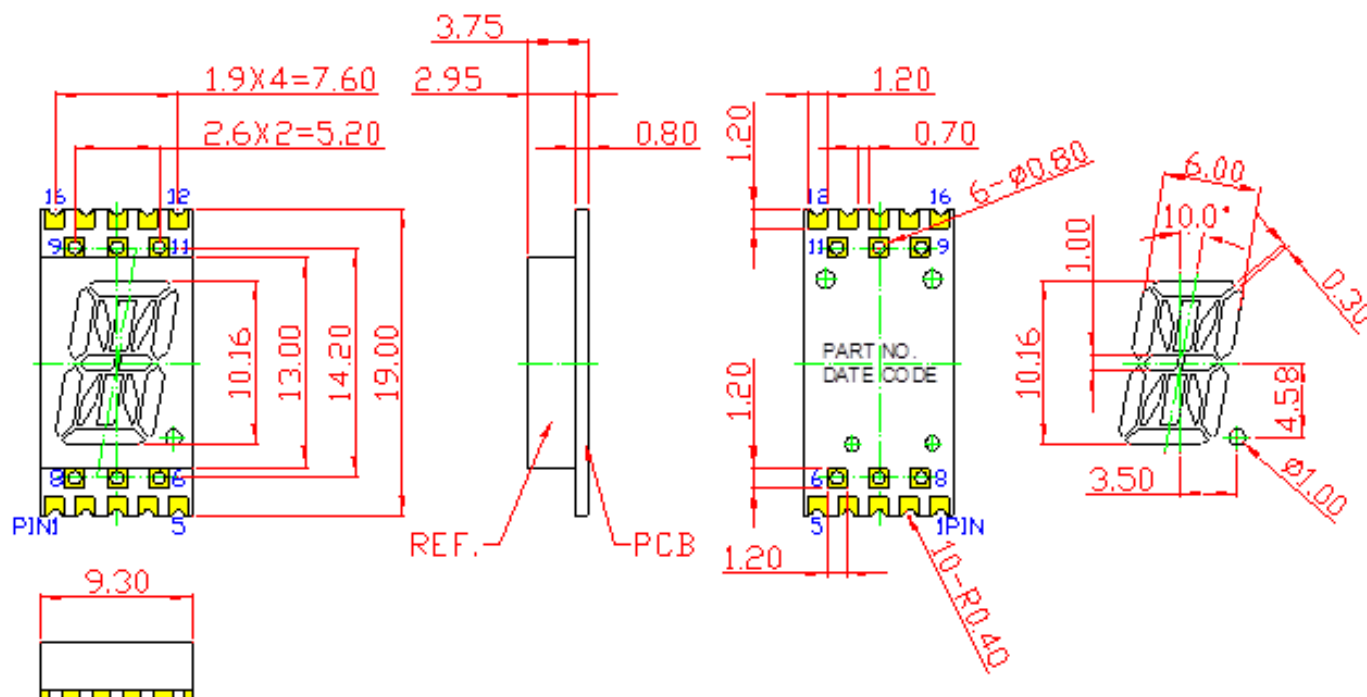
- Instrument panels
- Indoor/Outdoor display board
- Audio equipment

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.25mm



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Electrical / Optical Characteristic (T=25 °C)

Product		Color	I _F (mA)	V _F (V)			λ _D (nm)			I _V (mcd)
CC	CA			Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
QBASS40YG1	QBASS40YG0	Yellow Green	20	--	2.0	2.6	--	570	--	3

Absolute Maximum Rating

Material	P _d (mW)	Derating liner from 25 °C per dice (mA/ °C)	I _F (mA)	I* _{PF} (mA)	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
GaP	70	0.28	25	90	5	-40 to + 105	-40 to +105

*Duty 1/10 @ 1kHz

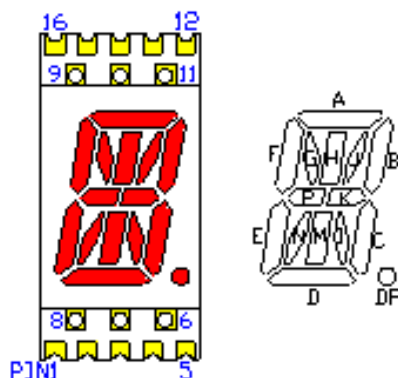
** IR Reflow for no more than 5 sec @ 260 °C



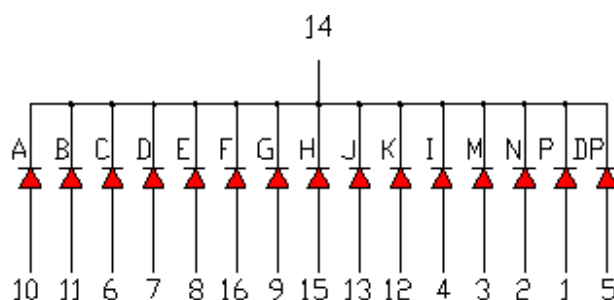
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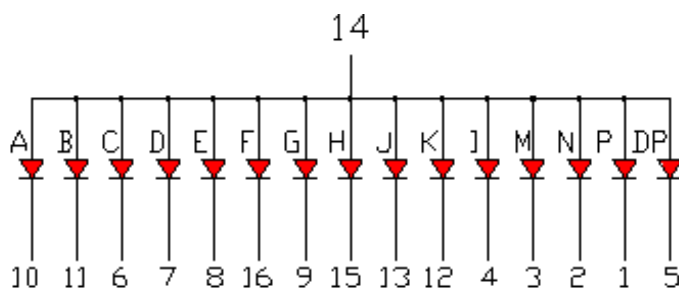
Pin Configuration



CC



CA



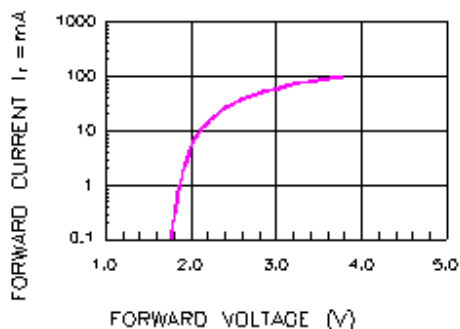


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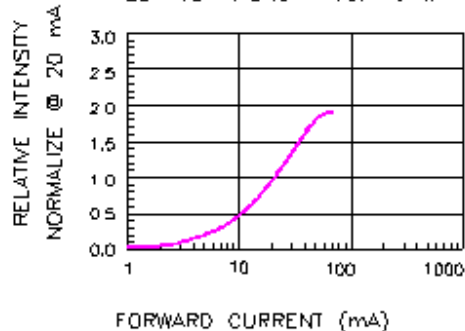
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Characteristic Curves

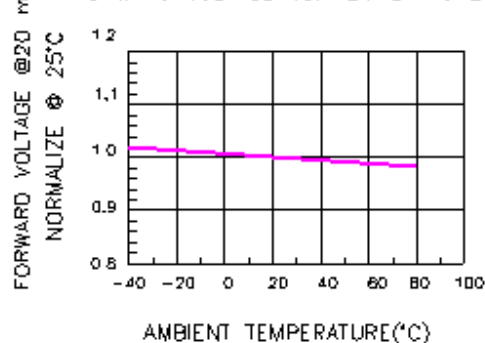
FORWARD CURRENT VS. FORWARD VOLTAGE



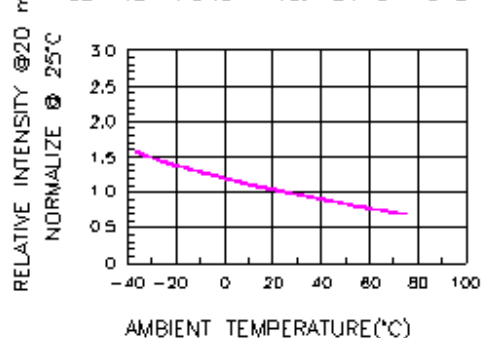
RELATIVE INTENSITY VS. FORWARD CURRENT



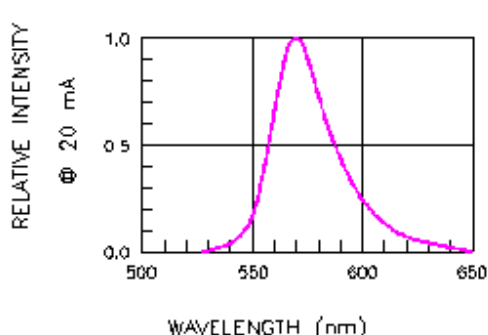
FORWARD VOLTAGE VS. TEMPERATURE



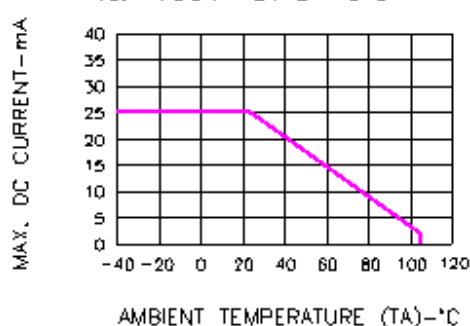
RELATIVE INTENSITY VS. TEMPERATURE



RELATIVE INTENSITY VS. WAVELENGTH



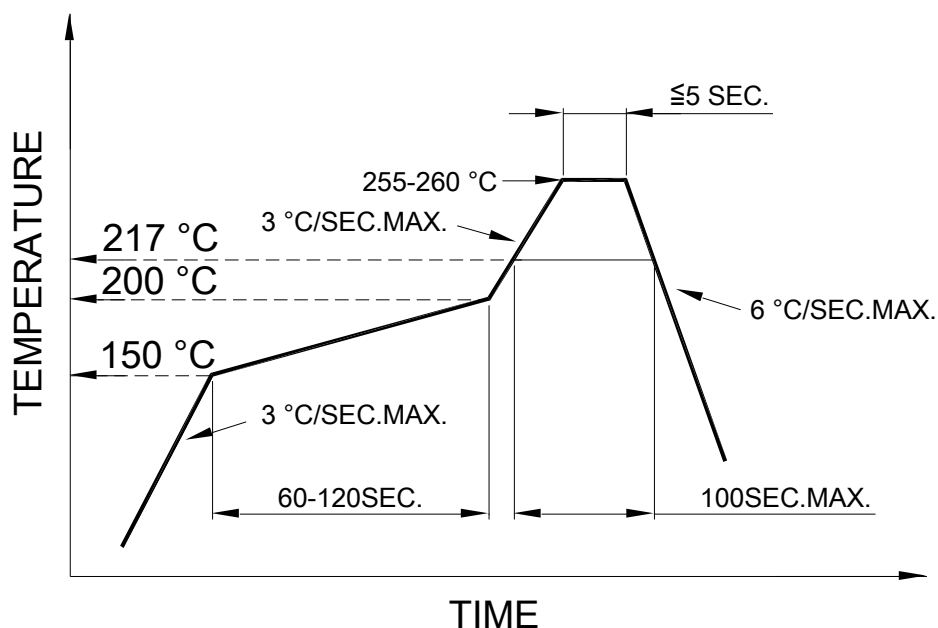
MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



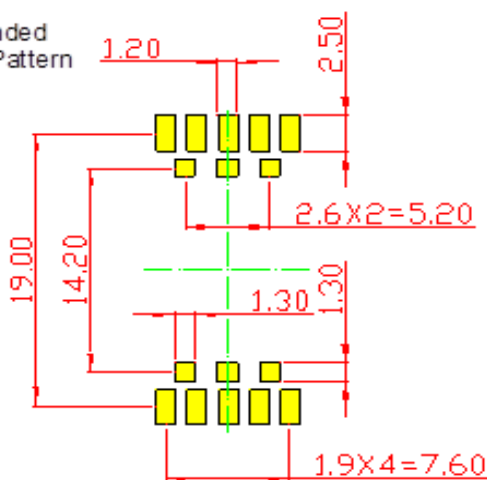
Soldering Profile

SMT Soldering Profile

Pb free reflow soldering Profile



Recommended
Soldering Pattern



Units: mm / tolerance = +/-0.25mm

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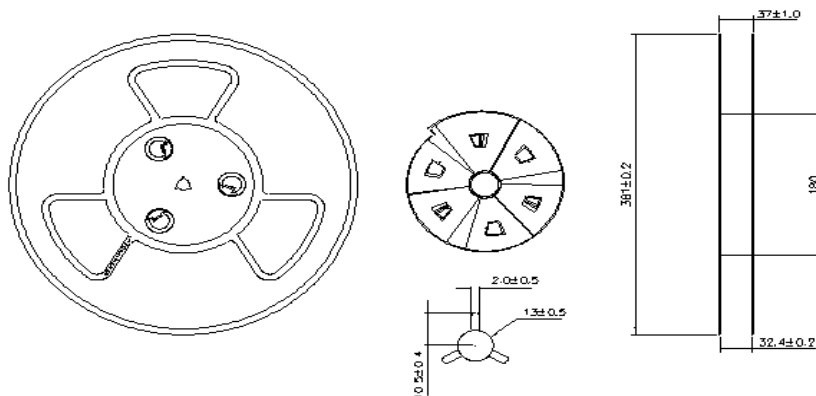


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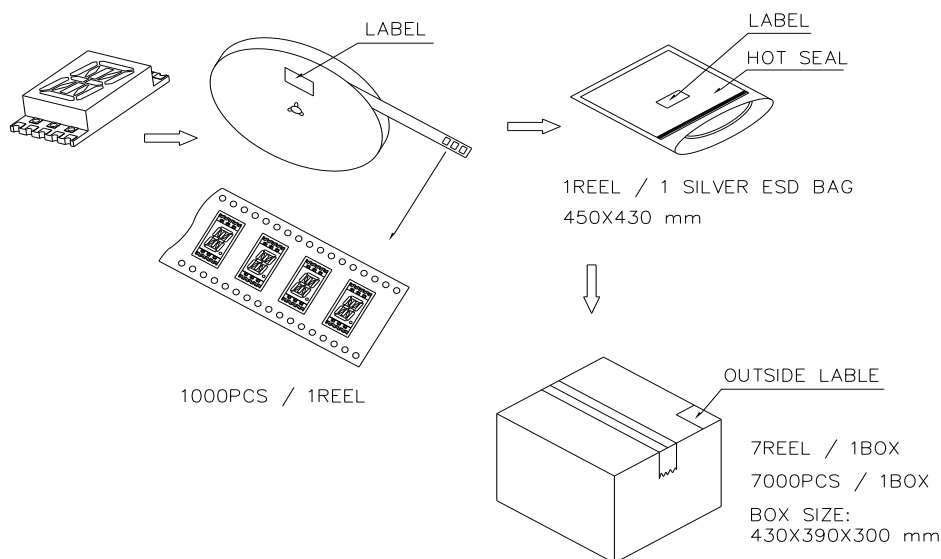
Packing

Reel Dimensions:



Unit: mm

Packing and Label Specifications:



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Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

Vf: _____

Iv: _____

WI: _____

Date: _____

Made in Taiwan

Ordering Information

Product		Orderable Part #		Spec Range	Quantity per Reel
CC	CA	CC	CA		
QBASS40YG1	QBASS40YG0	QBASS40YG1	QBASS40YG0	Iv=3 mcd Typ. @ I _F = 20mA/ Color: 570nm Typ.	1000

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Revision History

Description:	Revision #	Revision Date
New Release of QBASS40YGZ	V1.0	03/25/2014

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.

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