Feature:

- 0.4” Three digit seven segments display
- Low power consumption
- Packed in tube
- AlInGaP Technology R/Y/AG
- InGaN Technology IB/IG
- XX= color; Z= 1: Common Cathode or 0:Common Anode

Description:

These 0.4” Three digit seven segments displays are made with white segment and grey surface. The viewing distance is up to seven meters.

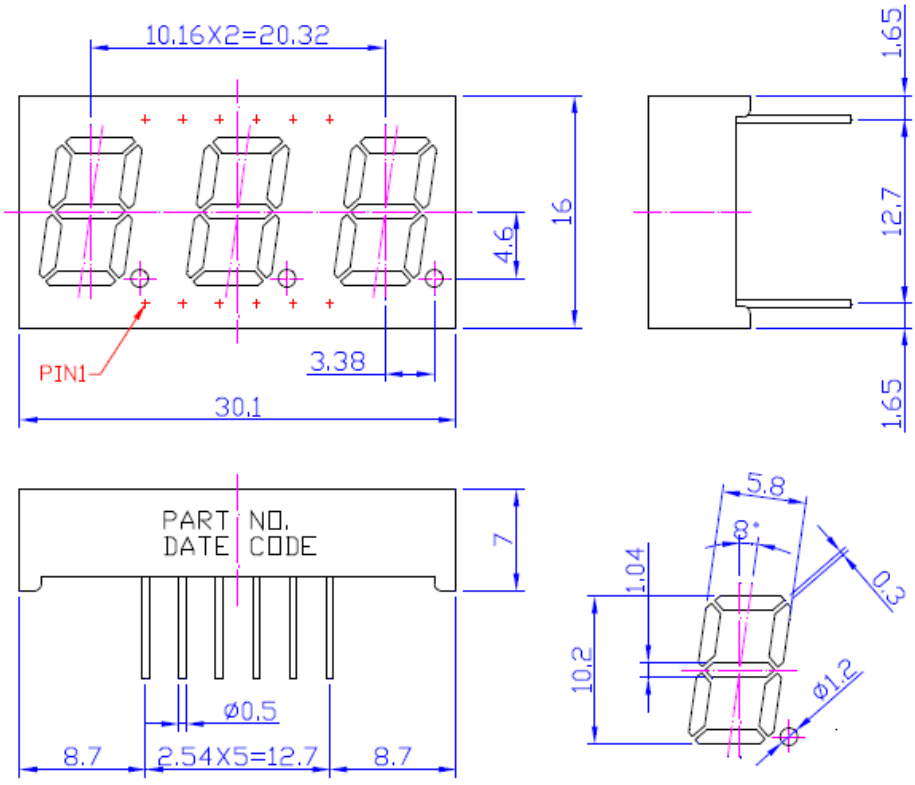
Application:

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

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant

Dimension:



Units: mm / tolerance = +/-0.25mm

Electrical / Optical Characteristic (T=25 °C)

Product		Material	Color	I_F(mA)	V_F(V)	λ_D (nm)		I_V(mcd)
CC	CA				Typ.	Min.	Max.	typ.
QBT40IB1	QBT40IB0	InGaN	Blue	20	3.2	460	470	160
QBT40IG1	QBT40IG0	InGaN	Green	20	3.2	500	530	200
QBT40R1	QBT40R0	AlInGaP	Red	20	2.0	619	629	60
QBT40Y1	QBT40Y0	AlInGaP	Yellow	20	2.0	585	595	35
QBT40AG1	QBT40AG0	AlInGaP	Yellow Green	20	2.0	565	575	25

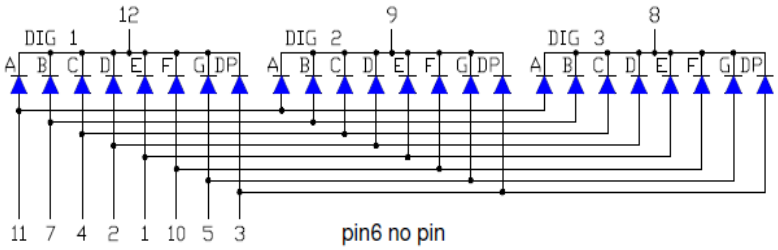
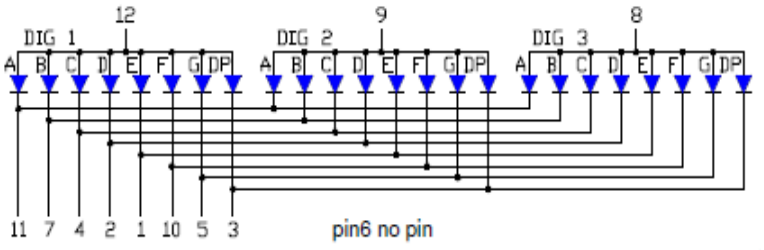
Absolute Maximum Rating

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)
InGaN	120	0.4	30	120	5	-40 to + 85	-40 to +100
AlInGaP	70	0.33	25	90	5	-40 to + 85	-40 to +100

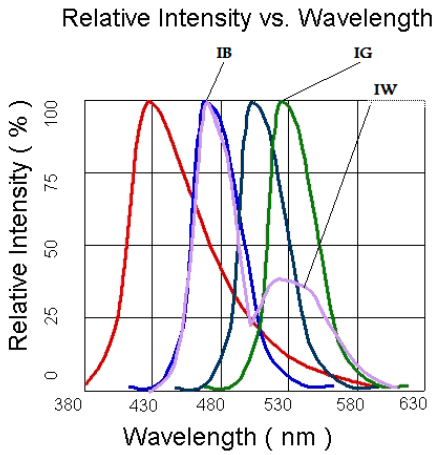
*Duty 1/10 @ 1KHz

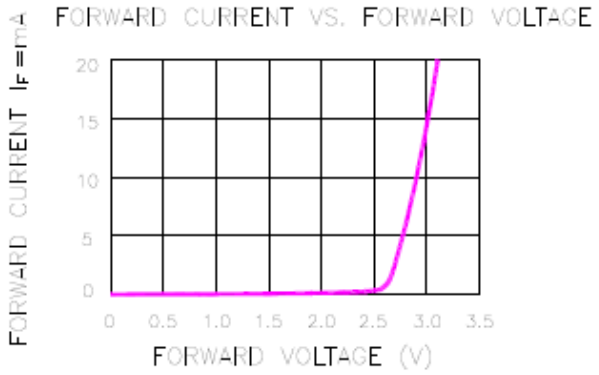
** IR Reflow for no more than 5 sec @ 260 °C

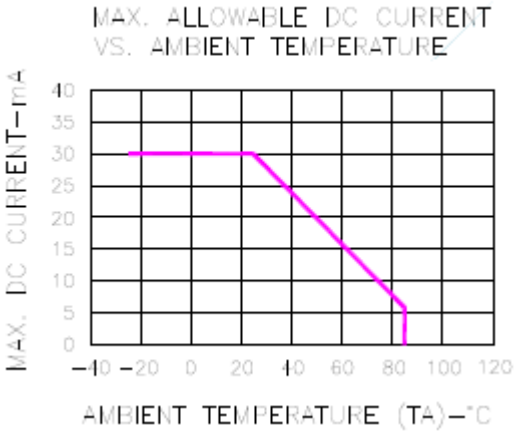
Pin Configuration

CC	
CA	

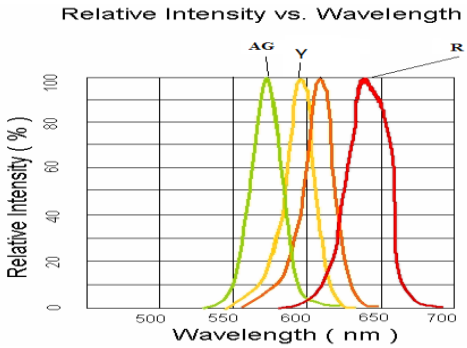
Characteristic Curves: (InGaN)

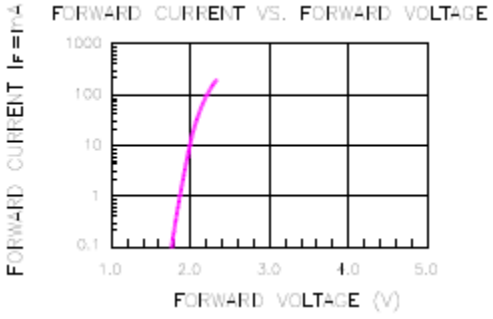


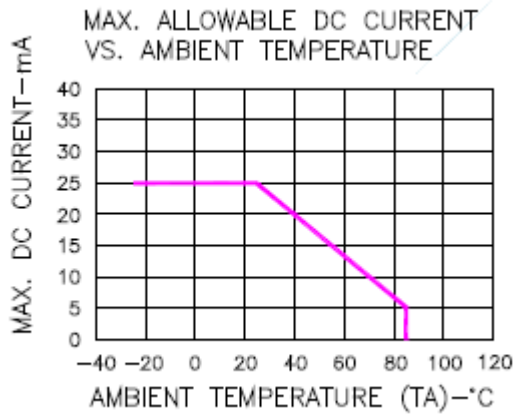




Characteristic Curves: (AlInGaP)







Ordering Information:

Product		Orderable Part #		Spec Range	Quantity per tube
CC	**CA**	**CC**	**CA**		
QBT40IB1	QBT40IB0	QBT40IB1	QBT40IB0	Iv= 160 mcd typ.	TBD
QBT40IG1	QBT40IG0	QBT40IG1	QBT40IG0	Iv= 200 mcd typ.	TBD
QBT40R1	QBT40R0	QBT40R1	QBT40R0	Iv= 60 mcdtyp.	TBD
QBT40Y1	QBT40Y0	QBT40Y1	QBT40Y0	Iv= 35 mcd typ.	TBD
QBT40AG1	QBT40AG0	QBT40AG1	QBT40AG0	Iv= 25 mcd typ.	TBD

Revision History:

Description:	Revision #	Revision Date
New Release of QBT40XXZ_series	V1.0	06/24/2011