

Feature:

- 0.56" Dual 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 0.56" Dual digit seven segments displays are made with white segment and grey surface. The viewing distance is up to seven meters.

Application:

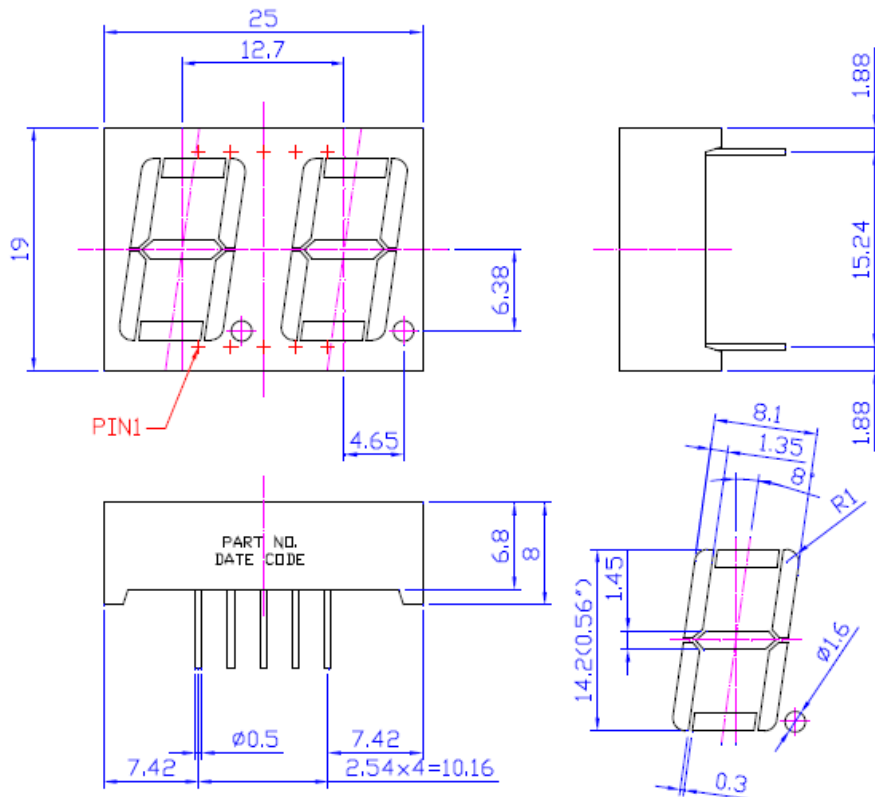
- Instrument panels
- Indoor/Outdoor display board
- Audio equipment

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.
QBD56IB1	QBD56IB0	InGaN	Blue	20	3.2	460	470	160
QBD56IG1	QBD56IG0	InGaN	Green	20	3.2	500	530	200
QBD56R1	QBD56R0	AllnGaP	Red	20	2.0	619	629	60
QBD56Y1	QBD56Y0	AllnGaP	Yellow	20	2.0	585	595	35
QBD56AG1	QBD56AG0	AllnGaP	Yellow Green	20	2.0	565	575	25

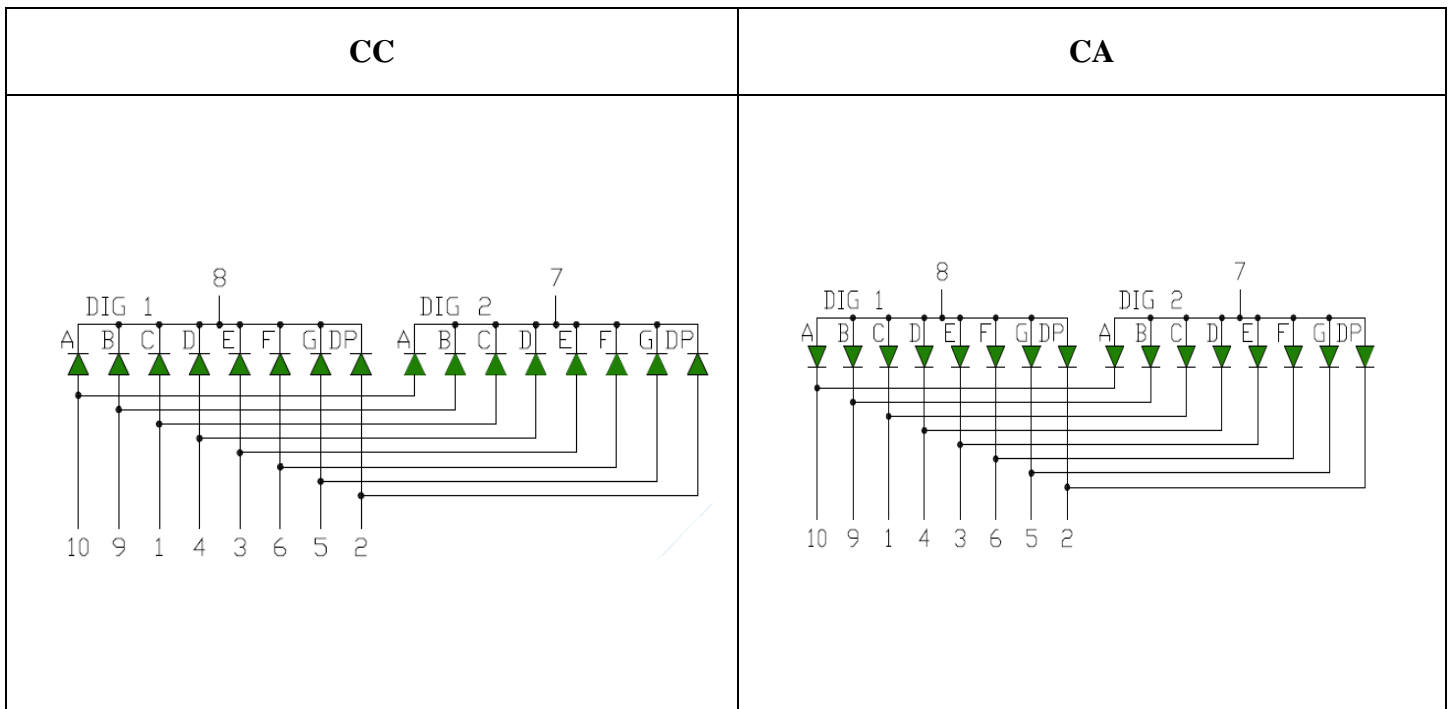
Absolute Maximum Rating

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
AllnGaP	70	0.33	25	90	5	-40 to + 85	-40 to +100

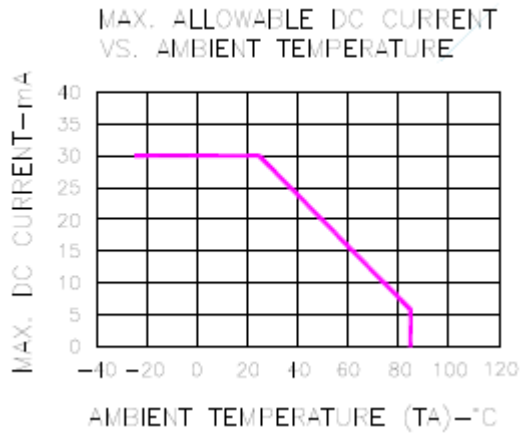
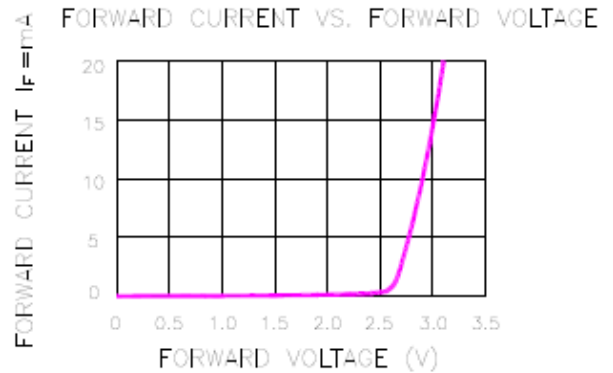
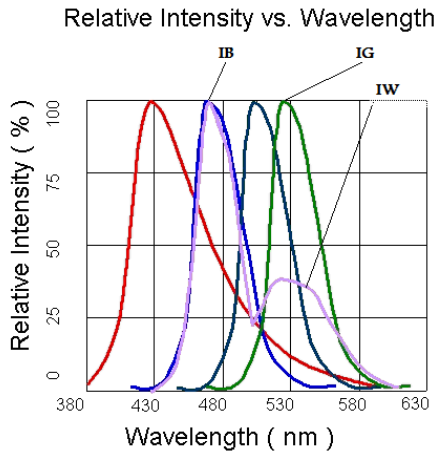
*Duty 1/10 @ 1KHz

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

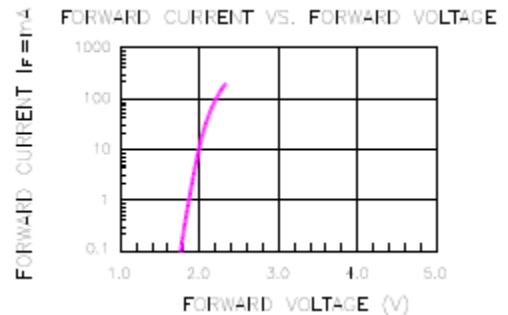
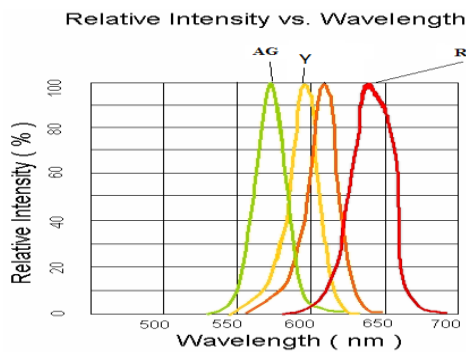
Pin Configuration

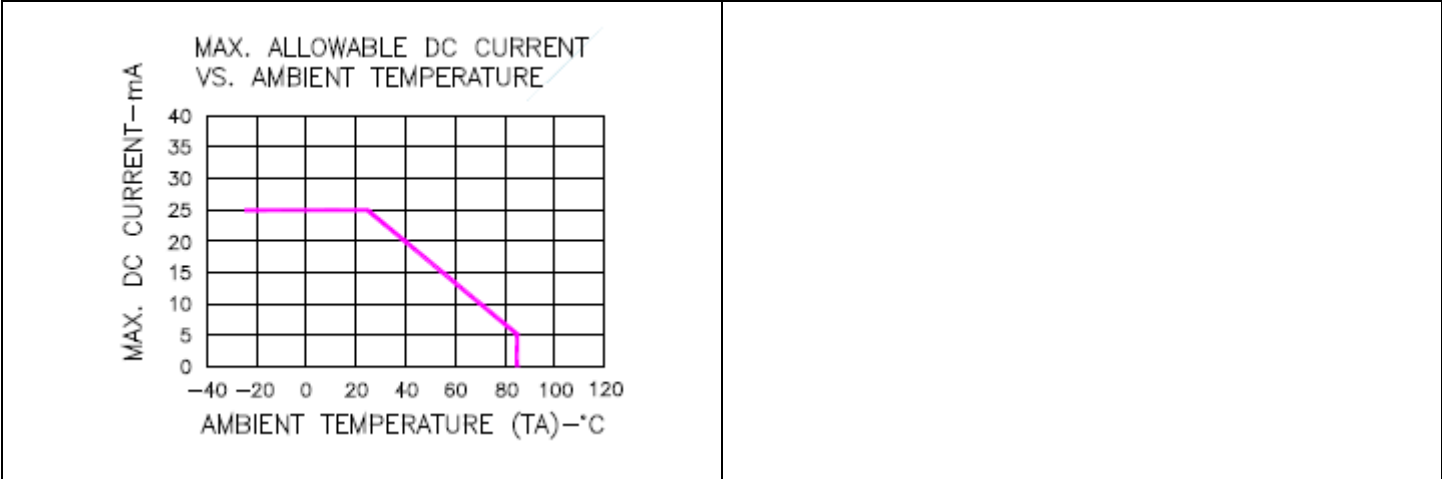


Characteristic Curves: (InGaN)



Characteristic Curves: (AlInGaP)





Ordering Information:

Product		Orderable Part #		Spec Range	Quantity per tube
CC	CA	CC	CA		
QBD56IB1	QBD56IB0	QBD56IB1	QBD56IB0	Iv= 160 mcd typ.	TBD
QBD56IG1	QBD56IG0	QBD56IG1	QBD56IG0	Iv= 200 mcd typ.	TBD
QBD56R1	QBD56R0	QBD56R1	QBD56R0	Iv= 60 mcd typ.	TBD
QBD56Y1	QBD56Y0	QBD56Y1	QBD56Y0	Iv= 35 mcd typ.	TBD
QBD56AG1	QBD56AG0	QBD56AG1	QBD56AG0	Iv= 25 mcd typ.	TBD

Revision History:

Description:	Revision #	Revision Date
New Release of QBD56XXX_series	V1.0	09/20/2010
Amend part number to QBD56XXZ / add color spec: blue and true green	V2.0	06/24/2011