

Feature:

- 0.56" Single 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:

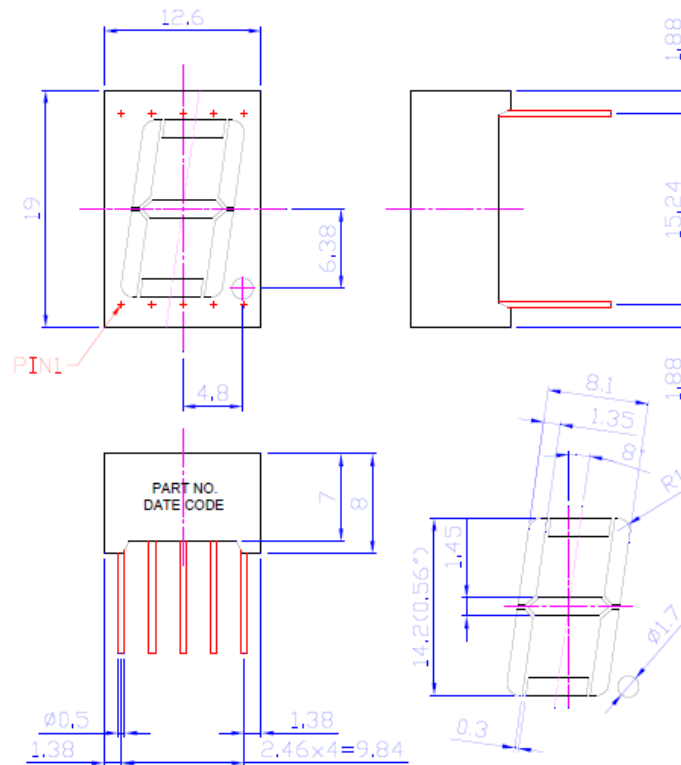
These 0.56" Single digit seven segments displays are made with white segment and grey surface. The viewing distance is up to seven meters.

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.
QBS56IB1	QBS56IB0	InGaN	Blue	20	3.2	460	470	160
QBS56IG1	QBS56IG0	InGaN	Green	20	3.2	500	535	200
QBS56R1	QBS56R0	AlInGaP	Red	20	2.0	619	629	60
QBS56Y1	QBS56Y0	AlInGaP	Yellow	20	2.0	585	595	35
QBS56AG1	QBS56AG0	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

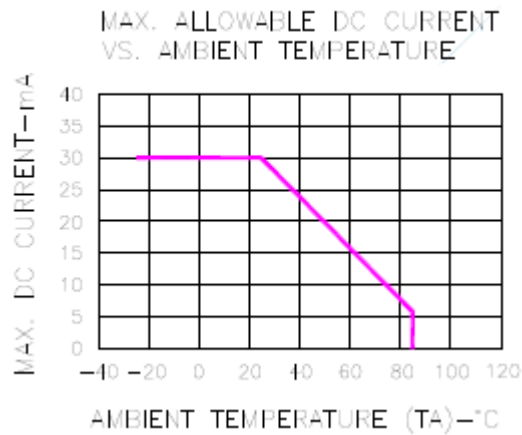
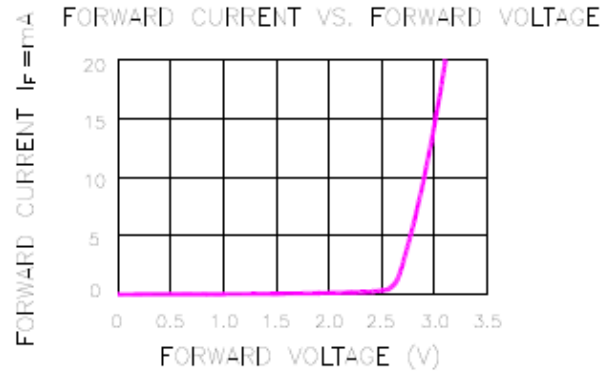
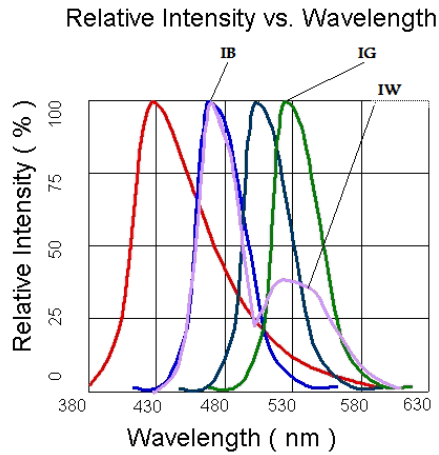
*Duty 1/10 @ 1KHz

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

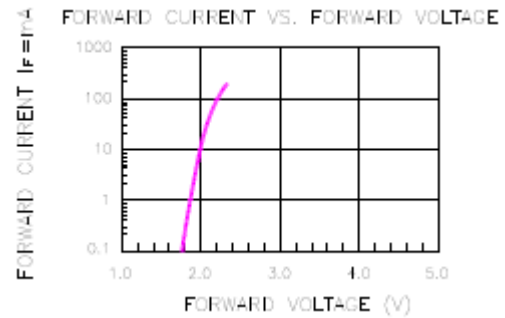
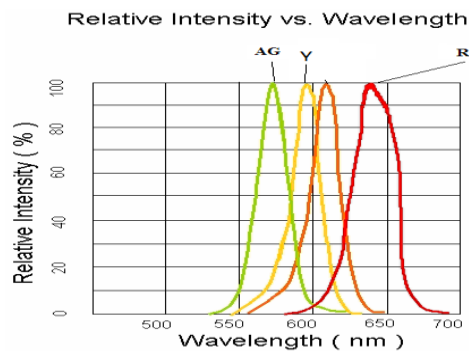
Pin Configuration

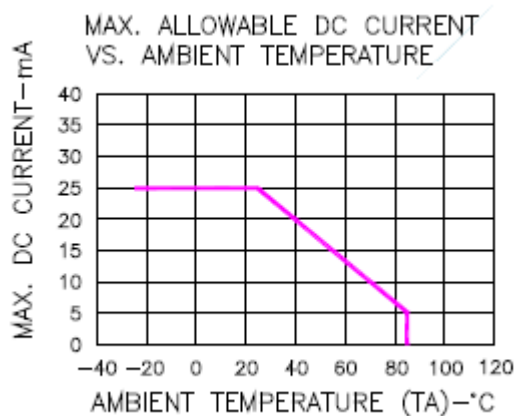
CC	CA

Characteristic Curves: (InGaN)



Characteristic Curves: (AlInGaP)





Ordering Information:

Product		Orderable Part #		Spec Range	Quantity per tube
CC	CA	CC	CA		
QBS56IB1	QBS56IB0	QBS56IB1	QBS56IB0	Iv= 40 mcd typ.	TBD
QBS56IG1	QBS56IG0	QBS56IG1	QBS56IG0	Iv= 200 mcd typ.	TBD
QBS56R1	QBS56R0	QBS56R1	QBS56R0	Iv= 60 mcd typ.	TBD
QBS56Y1	QBS56Y0	QBS56Y1	QBS56Y0	Iv= 35 mcd typ.	TBD
QBS56AG1	QBS56AG0	QBS56AG1	QBS56AG0	Iv= 25 mcd typ.	TBD

Revision History:

Description:	Revision #	Revision Date
New Release of QBS56XXZ_series	V1.0	06/24/2011