

Feature:

- Large emitting dot with 0.2" diameter
- Low power consumption
- Packed in tube
- Available in Red/Yellow/Yellow Green

Description:

These 2.4" 8x8 dot matrix displays are made with white got and grey surface.

Application:

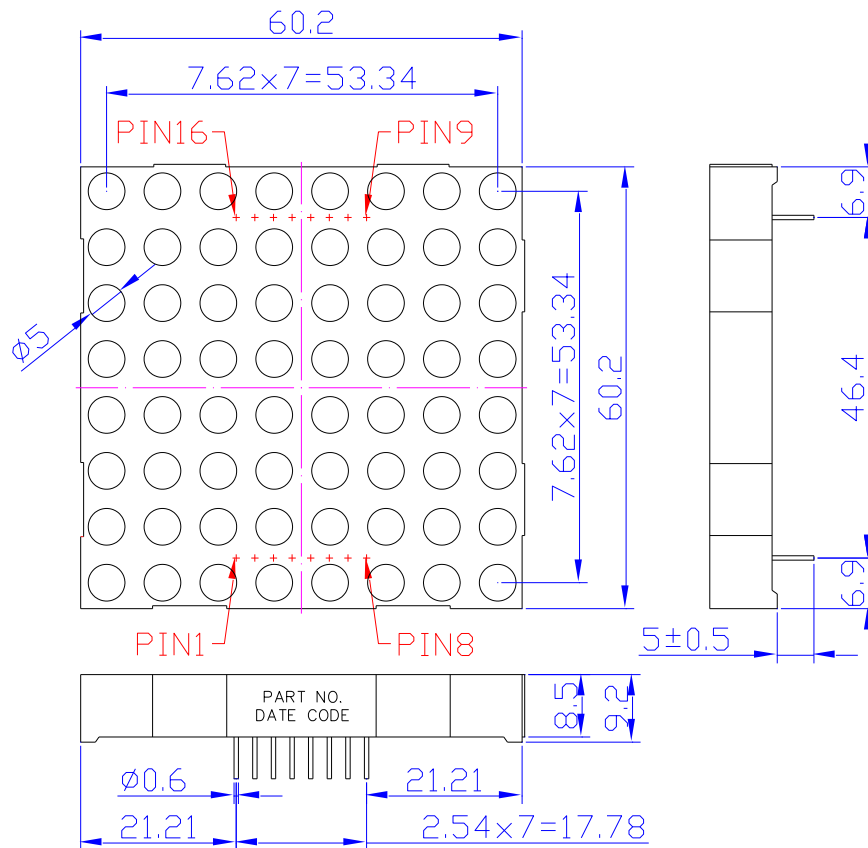
- Instrument panels
- Indoor/Outdoor display board
- Audio equipment

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(nm)		I _V (mcd)
CC	CA				Typ.	λ _D	λ _P	Typ.
GMC24IB88	GMA24IB88	InGaN	Blue	20	3.0	460	470	160
GMC24IG88	GMA24IG88	InGaN	Green	20	3.0	460	470	200
GMC24R88	GMA24R88	AllnGaP	Red	20	2.0	624	632	60
GMC24Y88	GMA24Y88	AllnGaP	Yellow	20	2.0	589	591	35
GMC24AG88	GMA24AG88	AllnGaP	Yellow Green	20	2.0	573	575	25

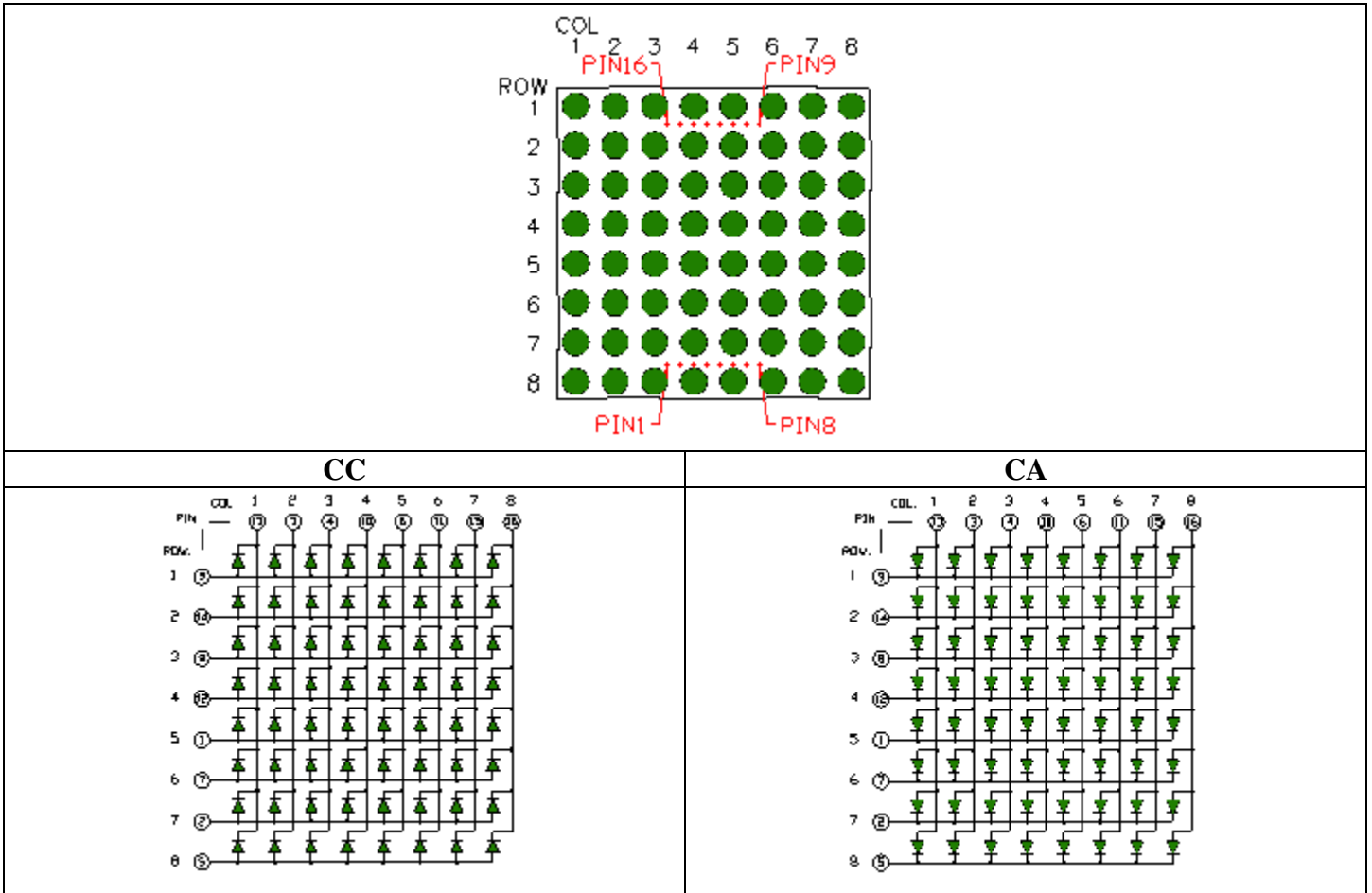
Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
InGaN (IB/IG)	120	30	100	5	-40 - 85	-40 - 100	260
AllnGaP (R/Y/AG)	70	30	90	5	-40 - 85	-40 - 100	260

*Duty 1/10 @ 1KHz

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

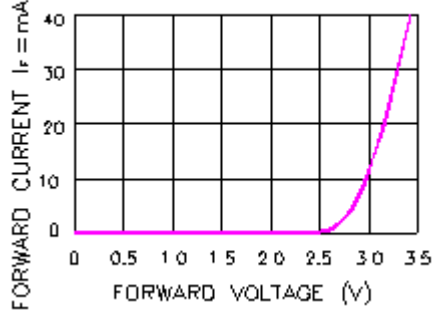
Pin Configuration



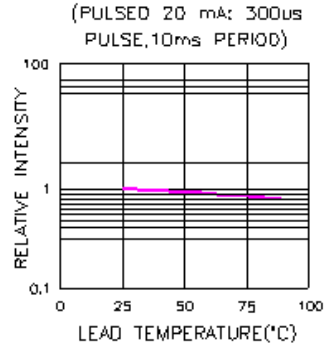
Characteristic Curves:

InGaN

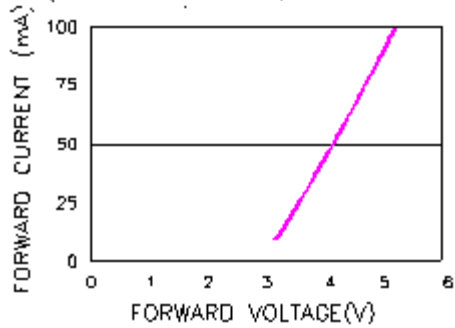
FORWARD CURRENT VS FORWARD VOLTAGE



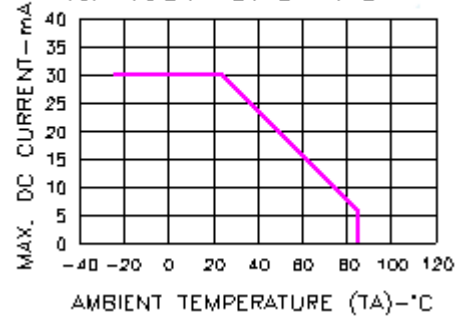
RELATIVE INTENSITY VS. LEAD TEMPERATURE



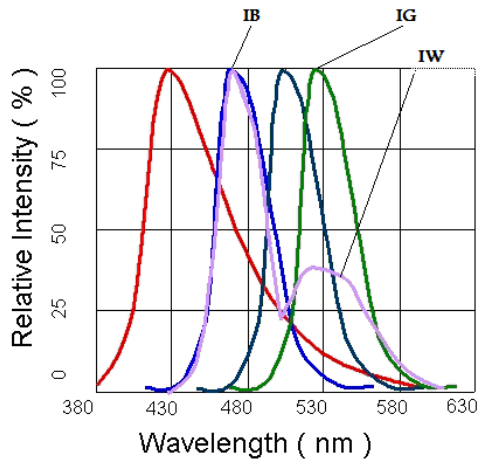
PEAK FORWARD VOLTAGE VS. FORWARD CURRENT
(100us TEST PULSE, 1% DUTY CYCLE)



MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

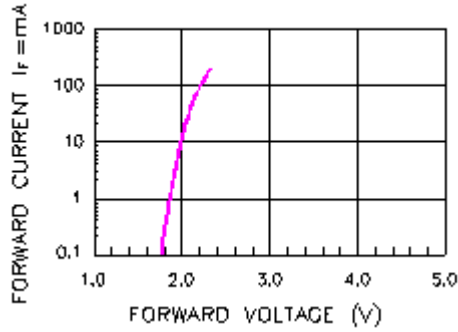


Relative Intensity vs. Wavelength

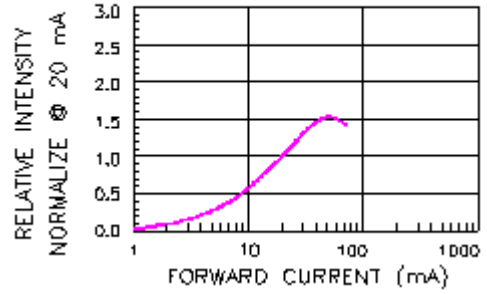


AlInGaP

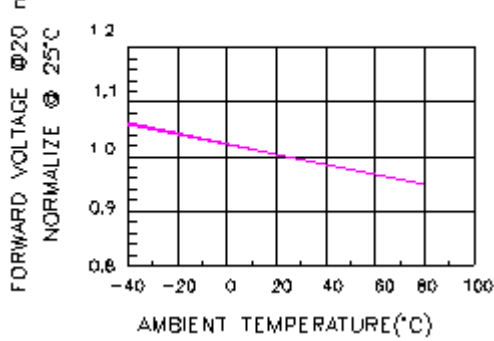
FORWARD CURRENT VS. FORWARD VOLTAGE



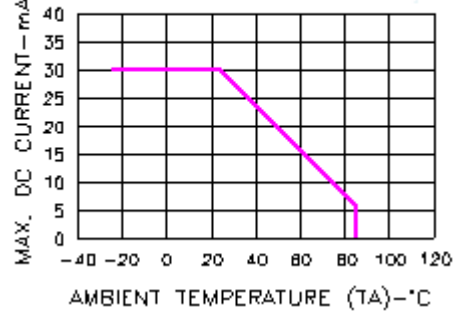
RELATIVE INTENSITY VS FORWARD CURRENT



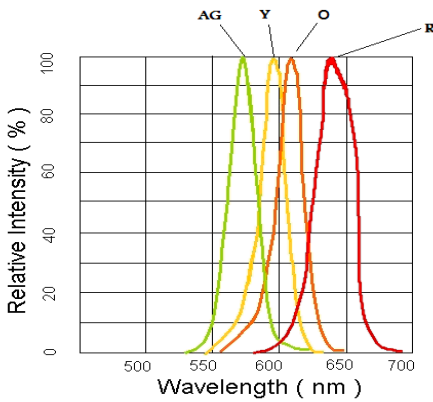
FORWARD VOLTAGE VS. TEMPERATURE



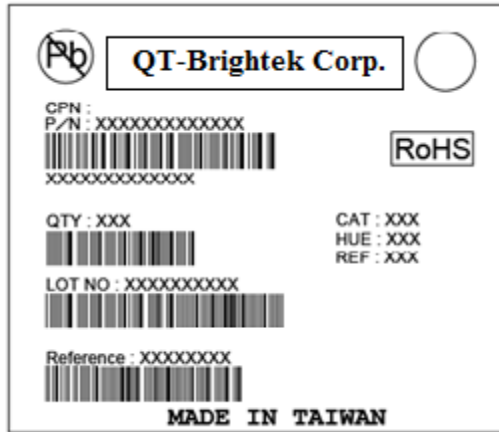
MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



Relative Intensity vs. Wavelength

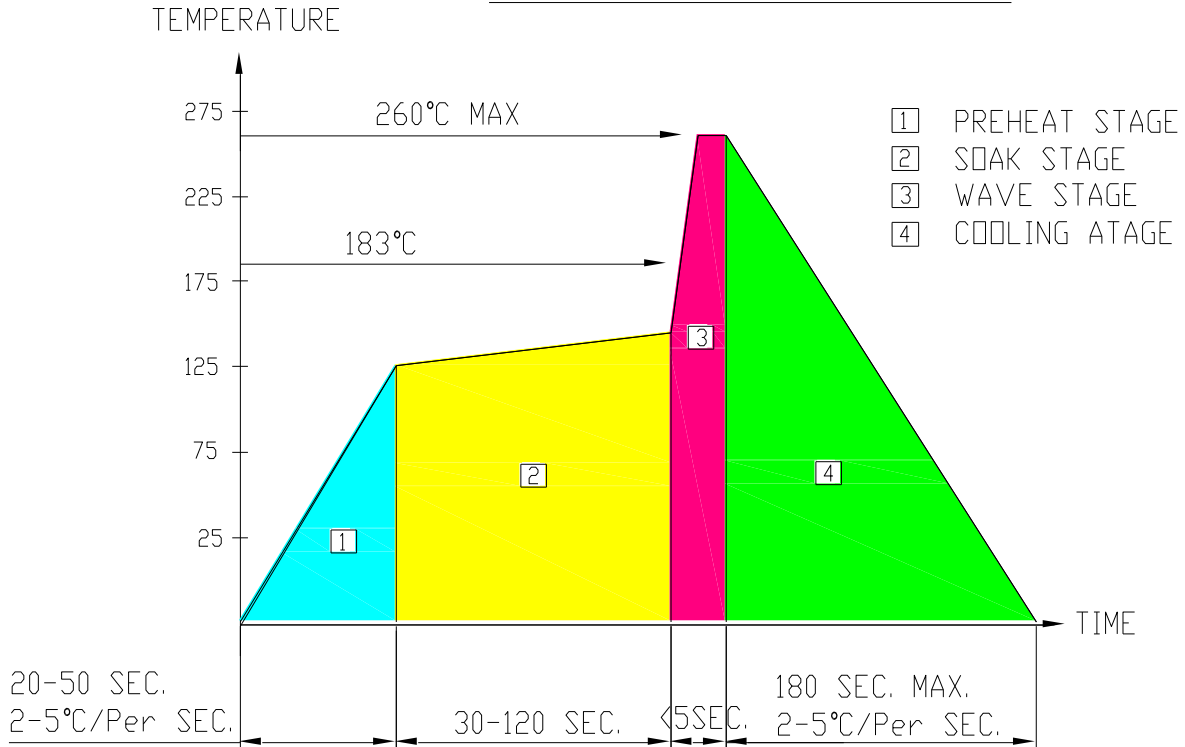


Labeling:



Soldering Profile:

WAVE SOLDER PROFILE



Ordering Information:

Product		Spec Range	Quantity per tube
CC	CA		
GMC24IB88	GMA24IB88	Iv=160mcd typ. @ I _F =20mA	TBD
GMC24IG88	GMA24IG88	Iv=200mcd typ. @ I _F =20mA	TBD
GMC24R88	GMA24R88	Iv=60mcd typ. @ I _F =20mA	TBD
GMC24Y88	GMA24Y88	Iv=35mcd typ. @ I _F =20mA	TBD
GMC24AG88	GMA24AG88	Iv=25mcd typ. @ I _F =20mA	TBD

Revision History:

Description:	Revision #	Revision Date
New Release of GMX24X88_series	V1.0	05/27/2011
Amend brightness and update labeling information/ Amend Part number to GMZ24XX88	V1.1	06/23/2011
Add Blue and Green Color Spec.	V1.2	07/18/2011