

Feature:

- Low power consumption
- Packed in tube
- AllInGaP technology for Red/Yellow/Yellow Green
- InGaN technology for Green/ Blue

Description:

These 1.2" 5x7 dot matrix displays are made with white got and grey surface.

Application:

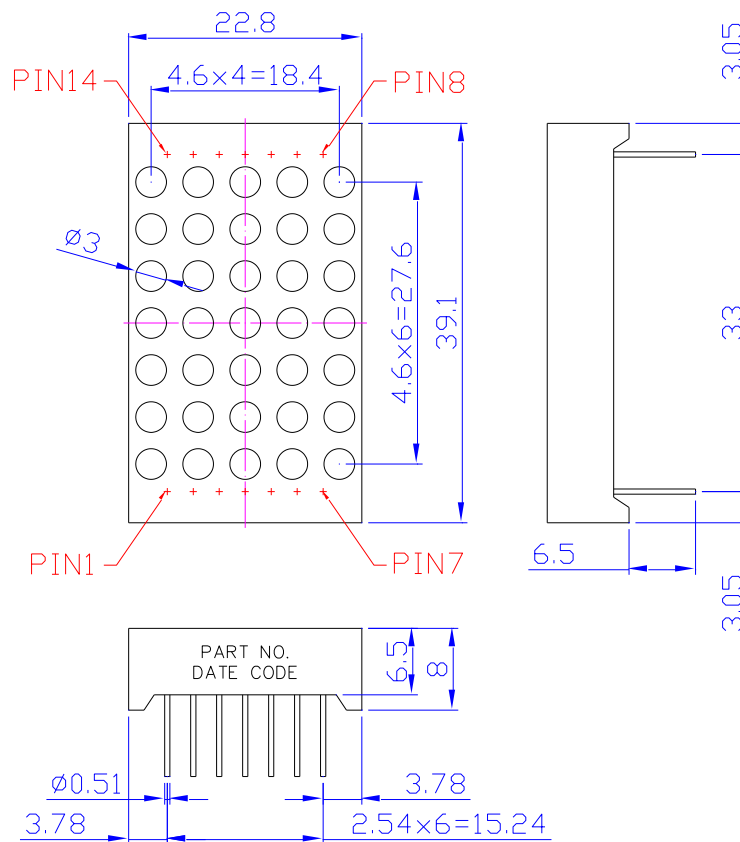
- Instrument panels
- Indoor/Outdoor display board
- Audio equipment

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.
GMC12IB75	GMA12IB75	InGaN	Blue	20	3.0	460	470	160
GMC12IG75	GMA12IG75	InGaN	Green	20	3.0	460	470	200
GMC12R75	GMA12R75	AllnGaP	Red	20	2.0	624	632	60
GMC12Y75	GMA12Y75	AllnGaP	Yellow	20	2.0	589	591	35
GMC12AG75	GMA12AG75	AllnGaP	Yellow Green	20	2.0	573	575	25

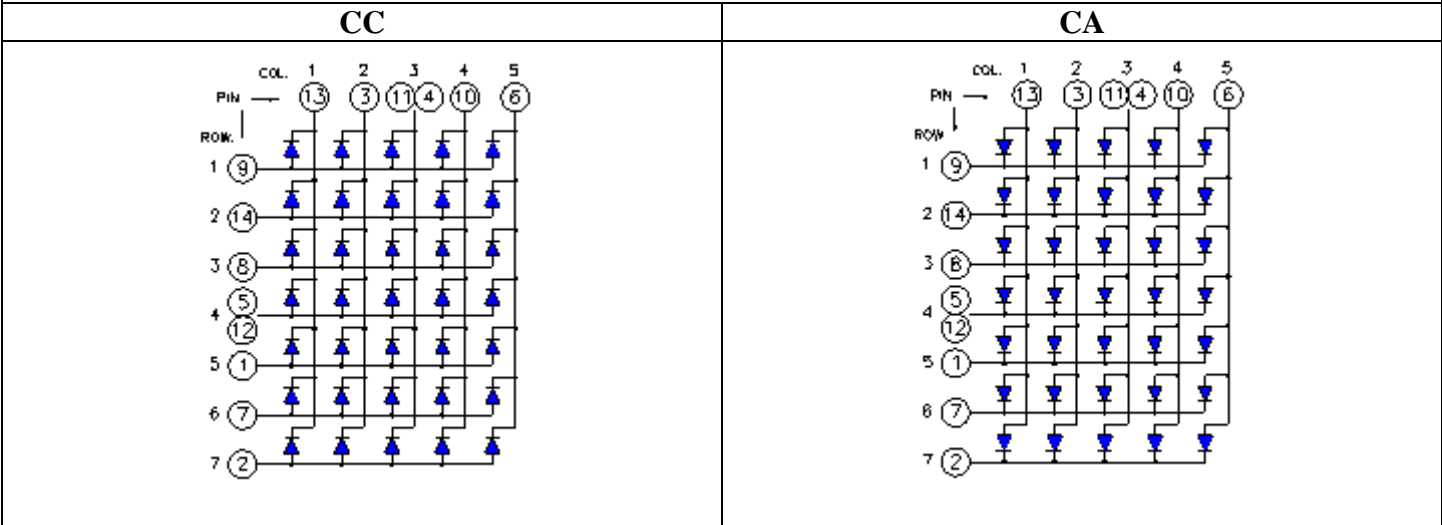
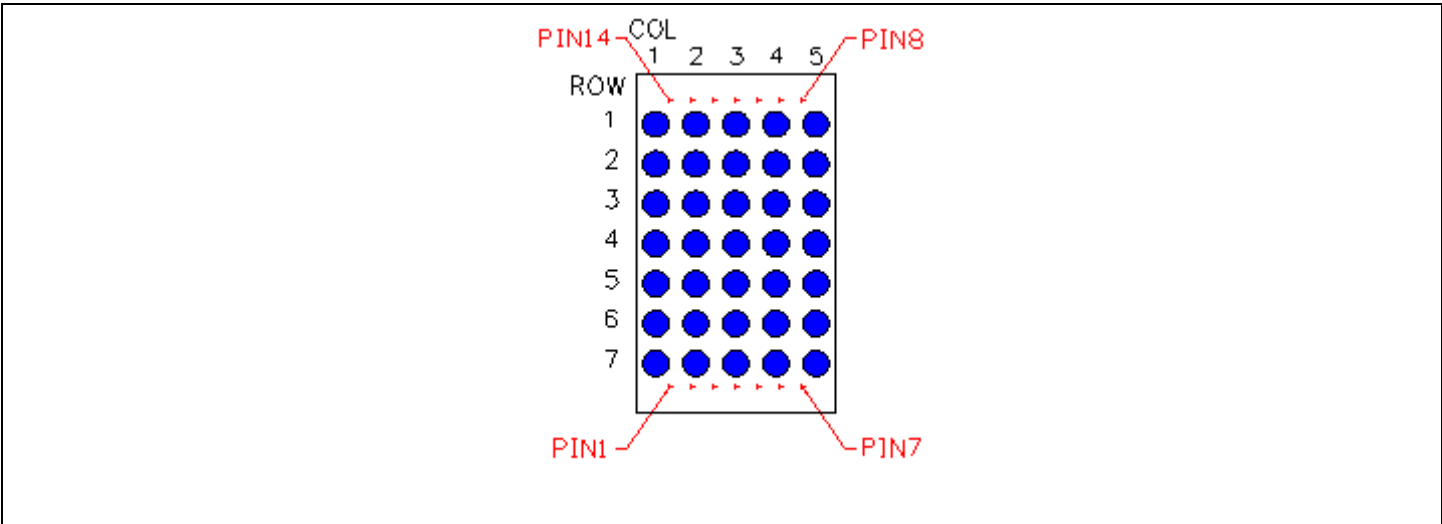
Absolute Maximum Rating

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

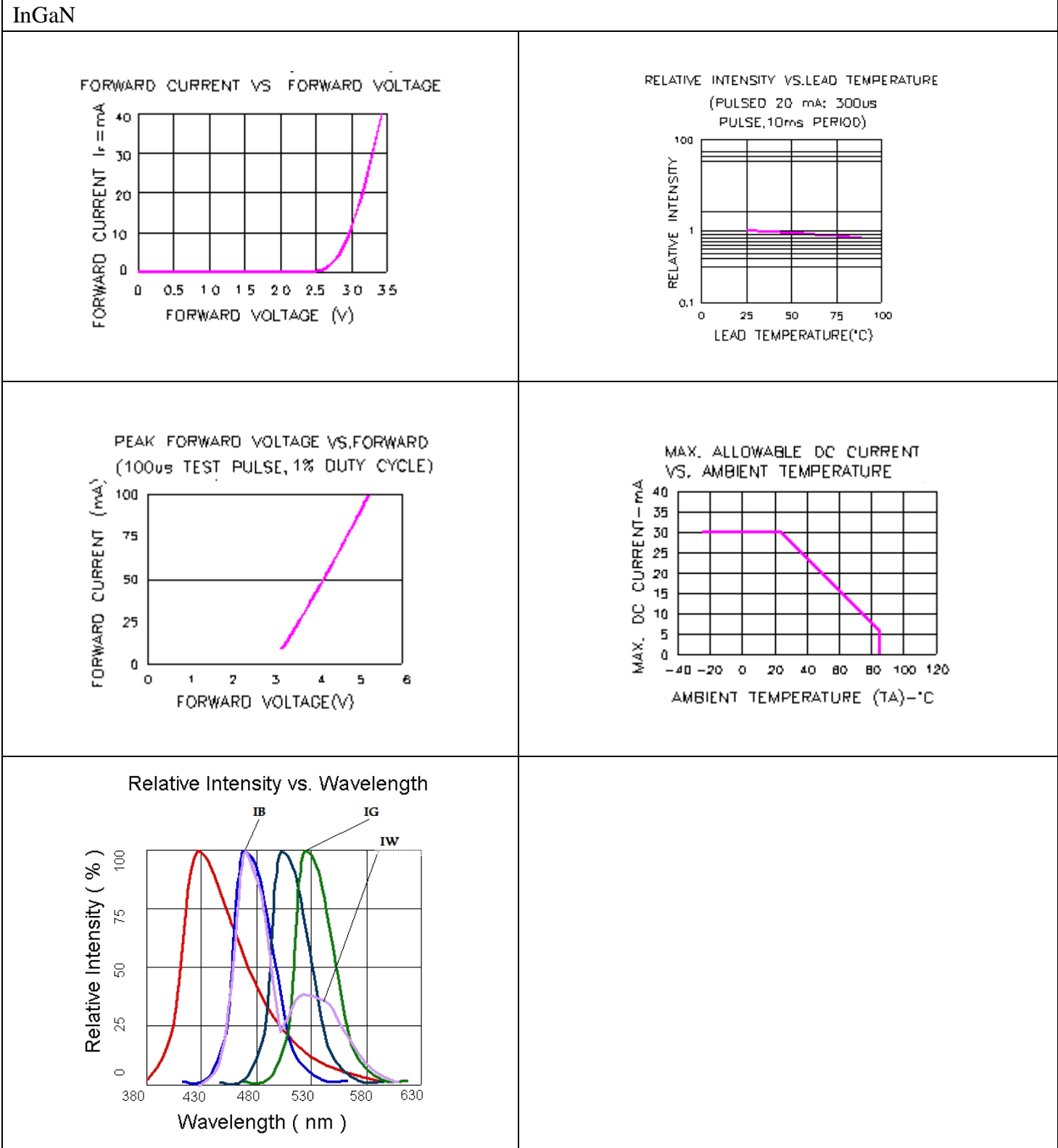
*Duty 1/10 @ 1KHz

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

Pin Configuration

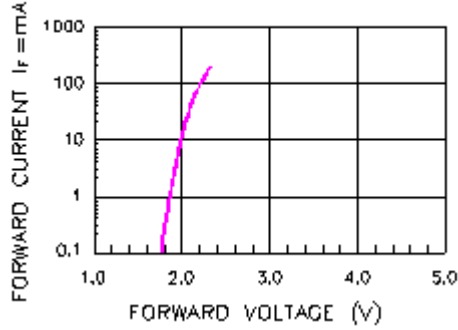


Characteristic Curves:

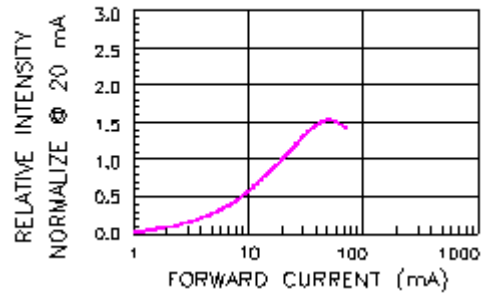


AlInGaP

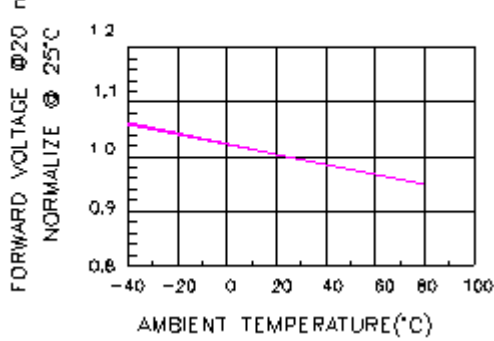
FORWARD CURRENT VS. FORWARD VOLTAGE



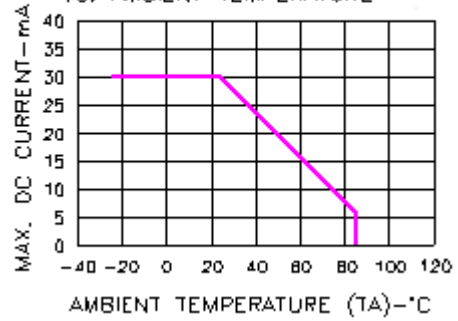
RELATIVE INTENSITY VS FORWARD CURRENT



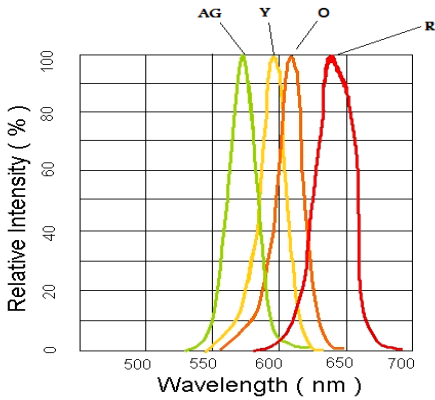
FORWARD VOLTAGE VS. TEMPERATURE



MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

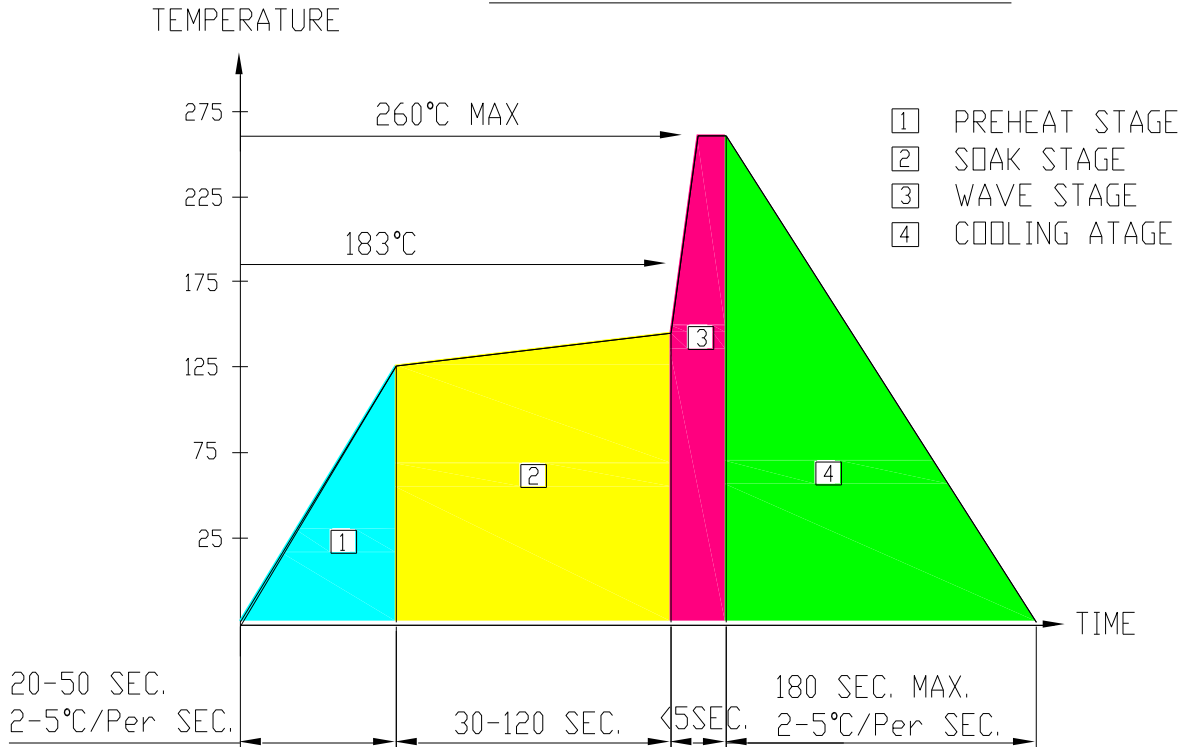


Relative Intensity vs. Wavelength



Solder Profile:

WAVE SOLDER PROFILE



Ordering Information:

Product		Spec Range	Quantity per tube
CC	CA		
GMC12IB75	GMA12IB75	Iv=160mcd typ. @ I _F =20mA	TBD
GMC12IG75	GMA12IG75	Iv=200mcd typ. @ I _F =20mA	TBD
GMC12R75	GMA12R75	Iv=60mcd typ. @ I _F =20mA	TBD
GMC12Y75	GMA12Y75	Iv=35mcd typ. @ I _F =20mA	TBD
GMC12AG75	GMA12AG75	Iv=25mcd typ. @ I _F =20mA	TBD

Revision History:

Description:	Revision #	Revision Date
New Release of GMZ12XX75_series	V1.0	05/26/2011
Add Color Blue/ Green Spec.	V1.1	07/13/2011