

Feature:

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

Description:

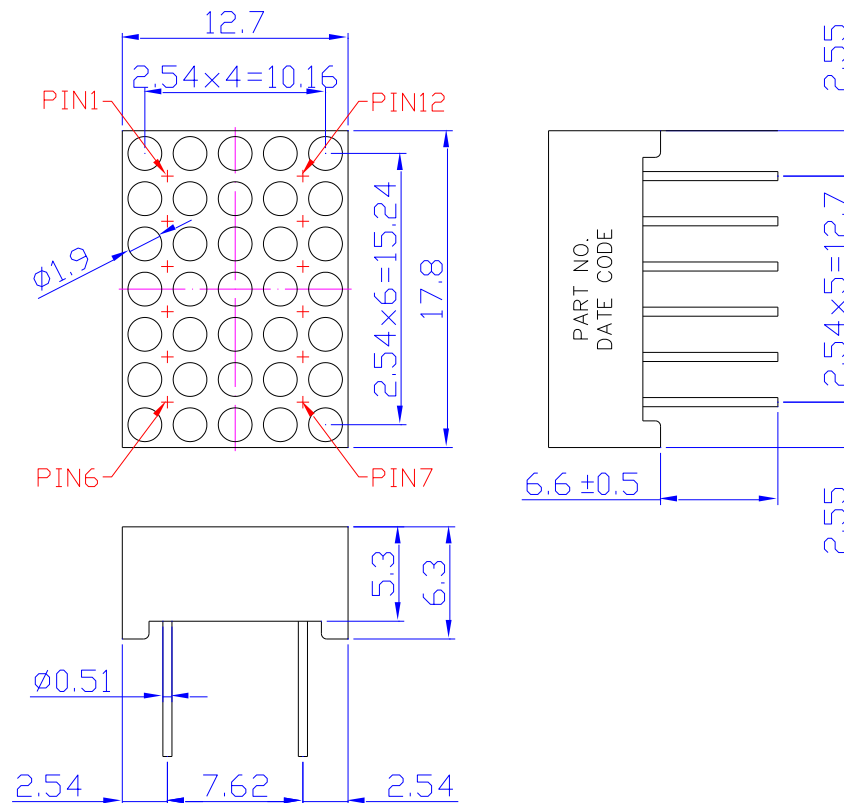
These 0.7" 5x7 dot matrix displays are made with white got and grey surface.

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.
GMC07IB75	GMA07IB75	InGaN	Blue	20	3.0	460	470	160
GMC07IG75	GMA07IG75	InGaN	Green	20	3.0	460	470	200
GMC07R75	GMA07R75	AlInGaP	Red	20	2.0	624	632	60
GMC07Y75	GMA07Y75	AlInGaP	Yellow	20	2.0	589	591	35
GMC07AG75	GMA07AG75	AlInGaP	Yellow Green	20	2.0	573	575	25

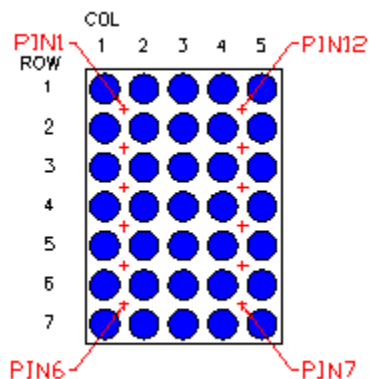
Absolute Maximum Rating

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
AlInGaP (R/Y/AG)	70	30	90	5	-40 - 85	-40 - 100	260

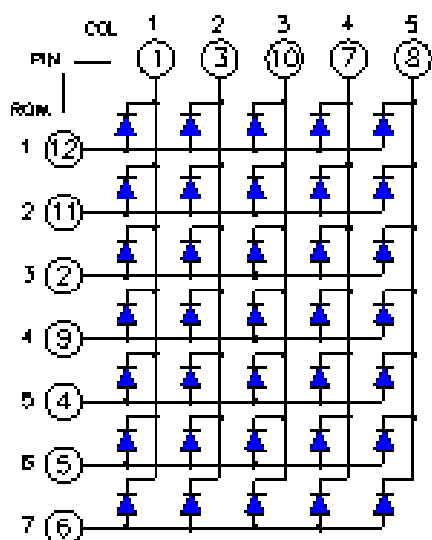
*Duty 1/10 @ 1KHz

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

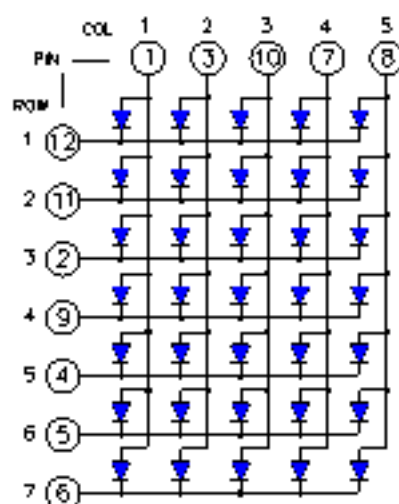
Pin Configuration



CC



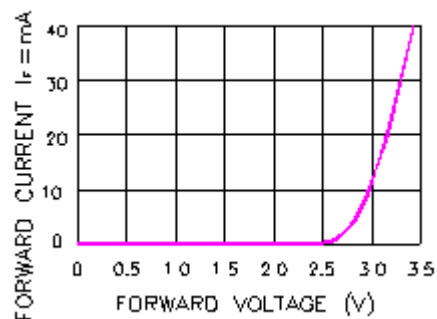
CA



Characteristic Curves:

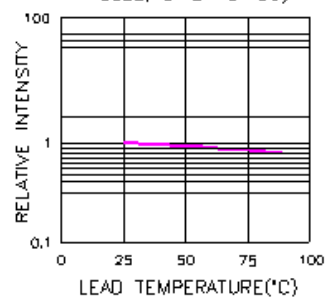
InGaN

FORWARD CURRENT VS FORWARD VOLTAGE

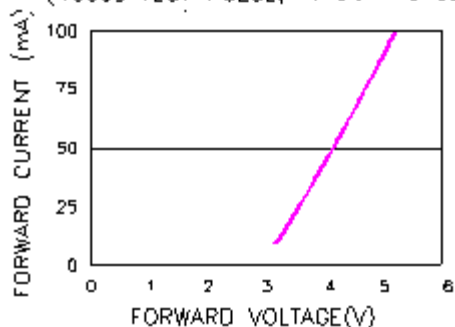


RELATIVE INTENSITY VS. LEAD TEMPERATURE

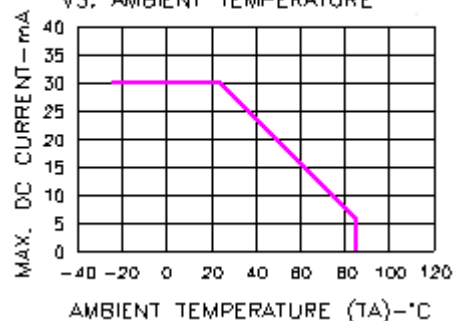
(PULSED 20 mA; 300us
PULSE, 10ms PERIOD)



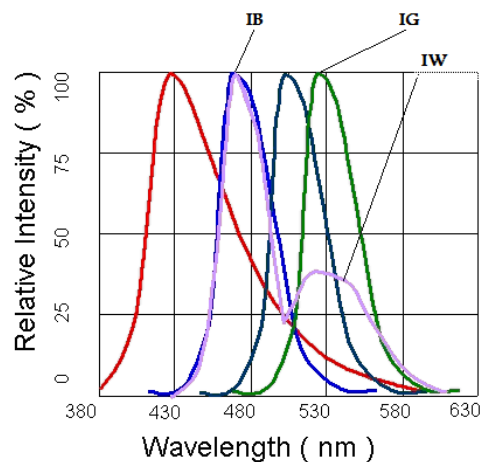
PEAK FORWARD VOLTAGE VS. FORWARD
(100us TEST PULSE, 1% DUTY CYCLE)



MAX. ALLOWABLE DC CURRENT
VS. AMBIENT TEMPERATURE

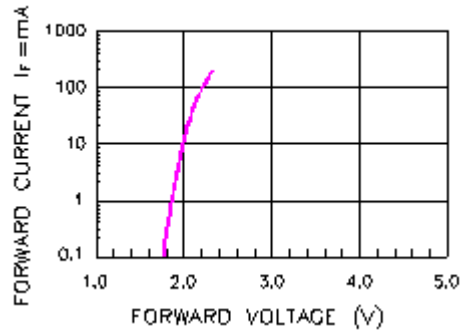


Relative Intensity vs. Wavelength

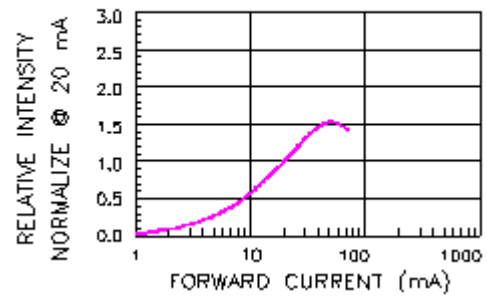


AlInGaP

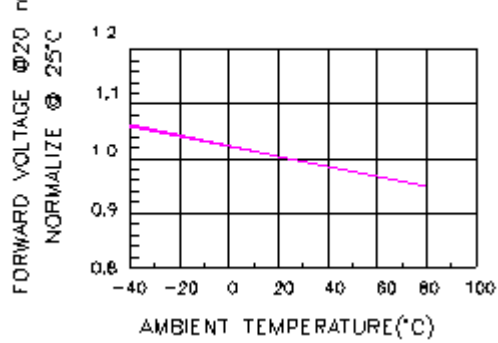
FORWARD CURRENT VS. FORWARD VOLTAGE



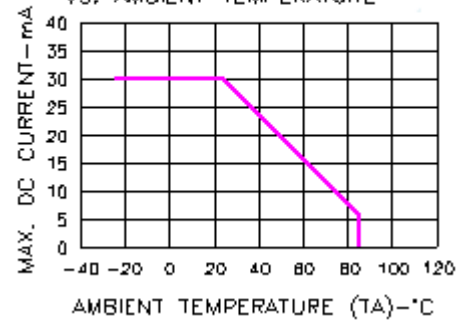
RELATIVE INTENSITY VS FORWARD CURRENT



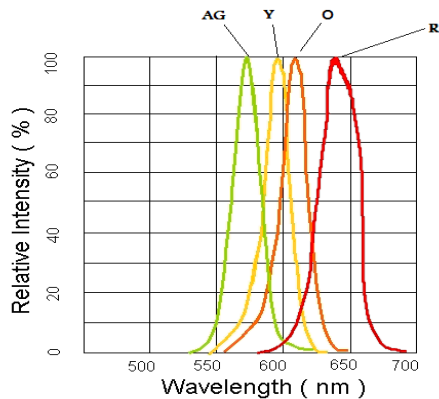
FORWARD VOLTAGE VS. TEMPERATURE



MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

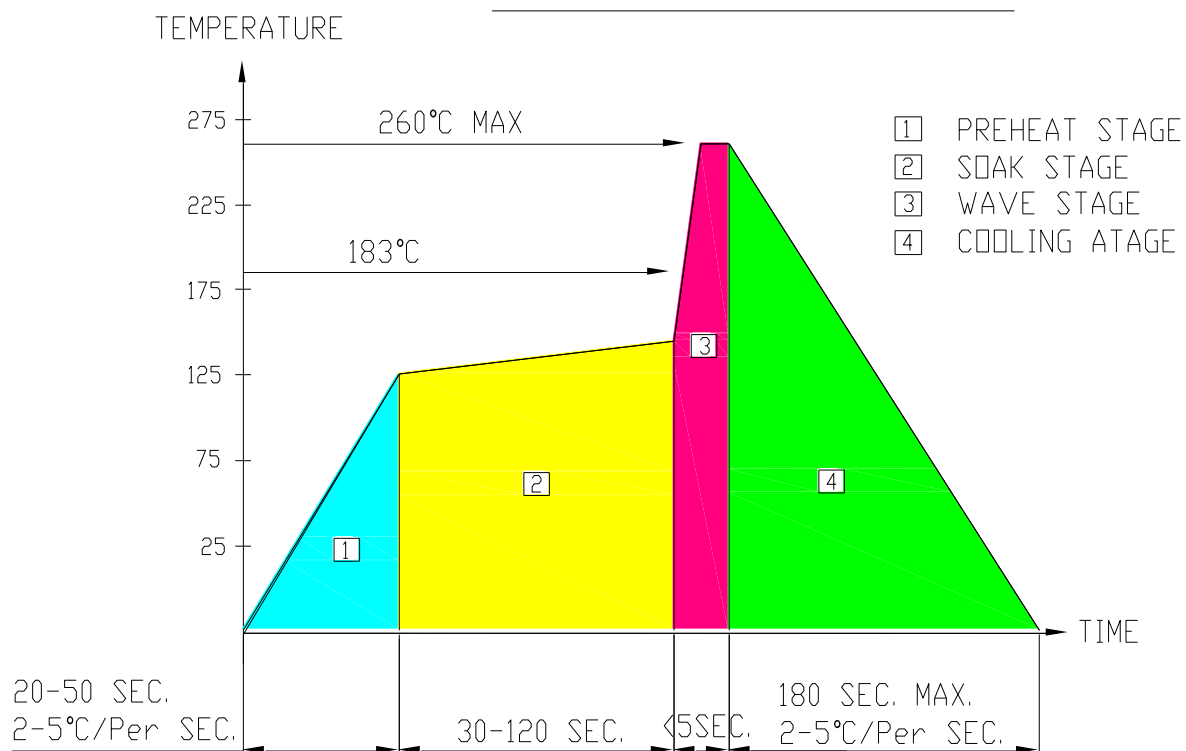


Relative Intensity vs. Wavelength



Solder Profile:

WAVE SOLDER PROFILE



Ordering Information:

Product		Spec Range	Quantity per tube
CC	CA		
GMC07IB75	GMA07IB75	Iv=160mcd typ. @ I _F =20mA	TBD
GMC07IG75	GMA07IG75	Iv=200mcd typ. @ I _F =20mA	TBD
GMC07R75	GMA07R75	Iv=60mcd typ. @ I _F =20mA	TBD
GMC07Y75	GMA07Y75	Iv=35mcd typ. @ I _F =20mA	TBD
GMC07AG75	GMA07AG75	Iv=25mcd typ. @ I _F =20mA	TBD

Revision History:

Description:	Revision #	Revision Date
New Release of GMZ07XX75 Series	V1.0	05/26/2011
Add Color Blue/ Green Spec.	V1.1	07/13/2011