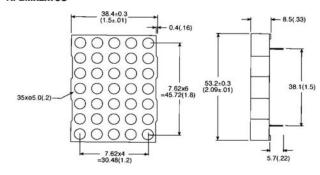




YELLOW GMA 2875C GMC 2875C HER GMA 2975C GMC 2975C GREEN GMA 2475C GMC 2475C BICOLOR RED/GREEN GMA 2675C

PACKAGE DIMENSIONS

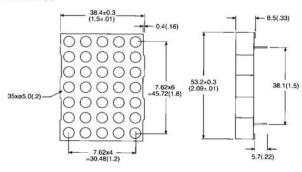
A. GMX2X75C

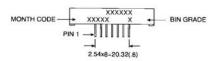




ST2639

B. GMA2675C





ST2640

NOTES:

- 1. ALL PINS ARE 00.5 (.02).
- DIMENSIONS IN MILLIMETERS (INCH), TOLERANCE IS ±0.25 (.01) UNLESS OTHERWISE NOTED.

DESCRIPTION

These are 5×7 dot matrix displays with large emitting area (0.2" diameter) LED sources. The GMX2X75C series are single color displays with the exception of GMA2675C which is a bicolor of red/green displays.

All displays have gray face and white dot color. Other face or dot colors are available with minimum requirement.

The X in GMX denotes row anode or row cathode.

FEATURES

- 2.0" (50.7 mm) character height
- Low power requirement
- High contrast & brightness
- Wide viewing angle 130°
- 5 × 7 array with X-Y select
- Compatible with USASCII and EBCDIC codes
- X-Y stackable
- Choice of two matrix orientation anode or cathode column
- Easy mounting on PCB
- Categorized for luminous intensity
- Single color displays have the choice of 3 bright colors
 — yellow/orange/green
- Multicolor color displays are applicable to 3 bright colors — greens, orange (HER) and yellow (green and HER mixed)



$\textbf{2.0"}~\textbf{5}\times\textbf{7}$ DOT MATRIX DISPLAYS

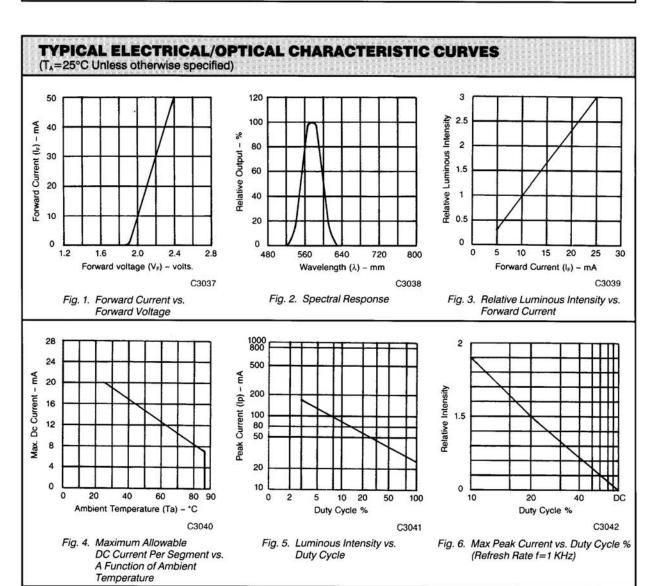
PARAMETER	YELLOW	HER	GREEN	UNITS
Power dissipation per dot/color	60	70	75	mW
(duty cycle 1/10, 10KHz)	80	100	100	mA
Continuous I _F per dot/color	20	25	25	mA
Reverse voltage V _B per dot/color	5	5	5	V

MODEL	NUMBE					
YELLOW	HER	r NO. GREEN	MULTI- COLOR	DESCRIPTION	PACKAGE DIMENSION	CIRCUIT DIAGRAM
GMC2875C	GMC2975C	GMC2475C		Anode column, cathode row	Α	Α
GMA2875C	GMA2975C	GMA2475C		Cathode column, anode row	Α	В
			GMA2675C	Cathode column, anode row	В	C



$2.0^{\prime\prime}\,5 imes7$ DOT MATRIX DISPLAYS

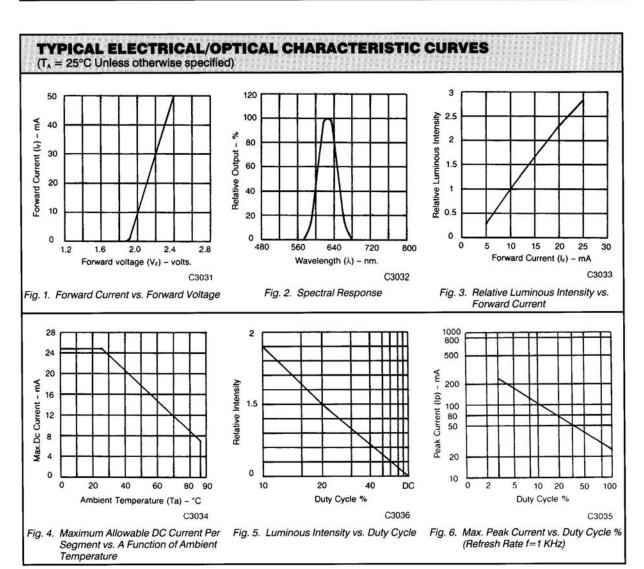
ELECTRICAL/OPTICAL CHARACTERISTICS (T _A = 25°C Unless otherwise specified) GMX 2875C						
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS	
Average luminous intensity		3000		μcd	I _F =20 mA	
Peak emission wavelength		585		nm	I _F =20 mA	
Spectral line half-width		30	-	nm	I _F =20 mA	
Forward voltage, any dot		2.1	2.8	٧	I _F =20 mA	
Reverse voltage, any dot			100	μΑ	V ₈ =5 V	





$2.0^{\prime\prime}\,5 imes7$ DOT MATRIX DISPLAYS

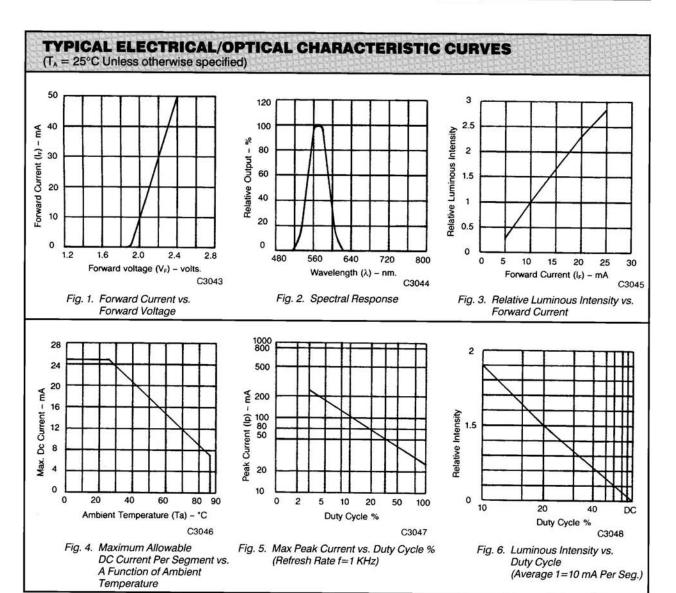
ELECTRICAL/OPTICAL CHARACTERISTICS (T _A = 25°C Unless otherwise specified) GMX 2975C						
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS	
Average luminous intensity		3000	- 220	μcd	I _F =20 mA	
Peak emission wavelength		635		nm	I _F =20 mA	
Spectral line half-width	550	30		nm	I _F =20 mA	
Forward voltage, any dot	1,00	2.1	2.8	٧	I _F =20 mA	
Reverse voltage, any dot	777		100	μΑ	V _R =5 V	





$2.0^{\prime\prime}\,5 imes7$ DOT MATRIX DISPLAYS

ELECTRICAL/OPTICAL CHARACTERISTICS (T _A = 25°C Unless otherwise specified) GMX 2475C						
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS	
Average luminous intensity		3000		μcd	I _F =20 mA	
Peak emission wavelength		565		nm	I _F =20 mA	
Spectral line half-width		30	-	nm	I _F =20 mA	
Forward voltage, any dot		2.1	2.8	V	I _F =20 mA	
Reverse voltage, any dot	· · · · · · · · · · · · · · · · · · ·		100	μА	V _B =5 V	



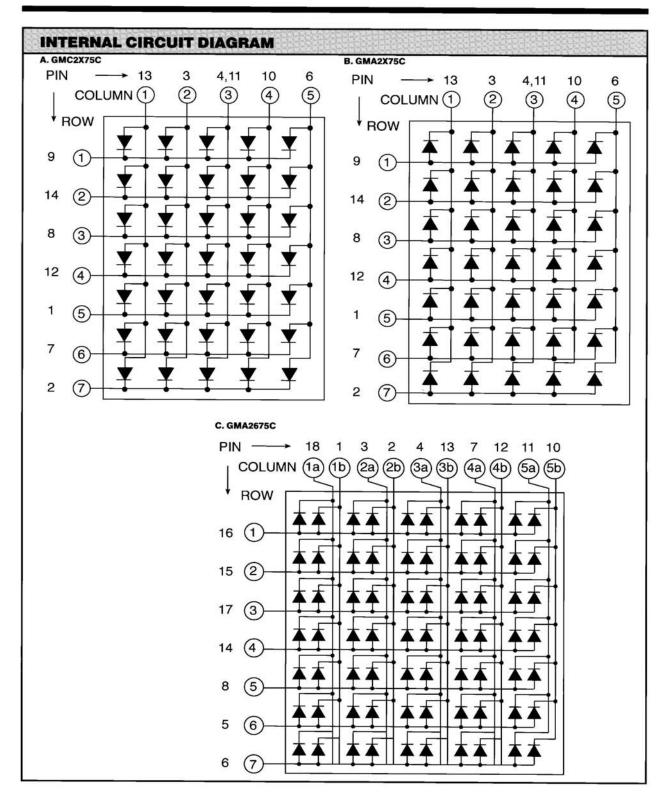


$\textbf{2.0''}~\textbf{5}\times\textbf{7}$ DOT MATRIX DISPLAYS

PIN NO.	GMC2X75C	GMA2X75C	GMA2675C
1	Cathode row 5	Anode row 5	Cathode column 1 green
2	Cathode row 7	Anode row 7	Cathode column 2 green
3	Anode column 2	Cathode column 2	Cathode column 2 HER
4	Anode column 3	Cathode column 3	Cathode column 3 HER
5	Cathode row 4	Anode row 4	Anode row 6
6	Anode column 5	Cathode column 5	Anode row 7
7	Cathode row 6	Anode row 6	Cathode column 4 HER
8	Cathode row 3	Anode row 3	Anode row 5
9	Cathode row 1	Anode row 1	No connection
10	Anode column 4	Cathode column 4	Cathode column 5 green
11	Anode column 3	Cathode column 3	Cathode column 5 HER
12	Cathode row 4	Anode row 4	Cathode column 4 green
13	Anode column 1	Cathode column 1	Anode column 3 green
14	Cathode row 2	Anode row 2	Anode row 4
15			Anode row 2
16			Anode row 1
17			Anode row 3
18			Cathode column 1 HER









2.0" 5 X 7 DOT MATRIX DISPLAYS

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