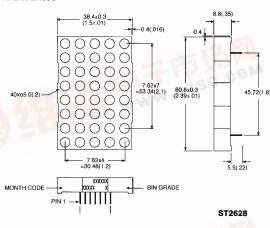


 $2.3'' 5 \times 8$ **DOT MATRIX DISPLAYS**

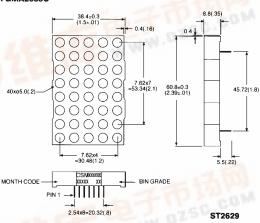
YELLOW GMA 2885C GMC 2885C HER GMA 2985C GMC 2985C GREEN GMA 2485C GMC 2485C BICOLOR RED/GREEN **GMA 2685C**

PACKAGE DIMENSIONS

A. GMX2X85C



B. GMA2685C



NOTES:

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

DESCRIPTION

These are 5×8 dot matrix displays with large emitting area (0.2" diameter) LED sources. The GMX2X85C series are single color displays with the exception of GMA2685C 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

- 2.3" (58.4 mm) character height

 Low power requirement
- High contrast & brightness
- Wide viewing angle 130°
- 5 × 8 array with X-Y select
- Compatible with USASCII and EBCDIC codes
- X-Y stackable
- Choice of two matrix orientation anode or cathode
- 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)





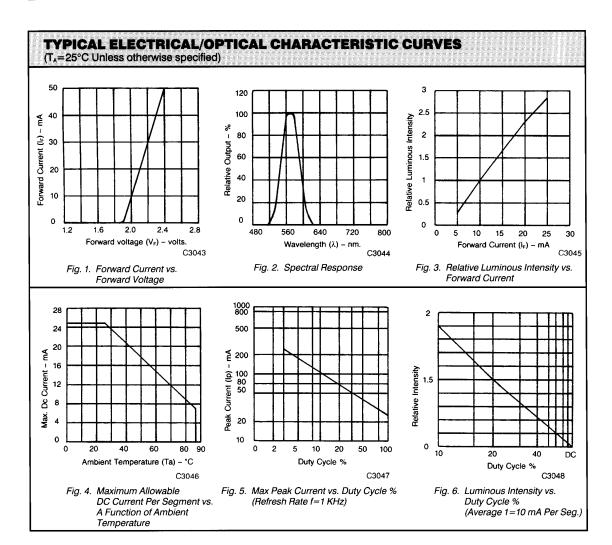
$\textbf{2.3''}~\textbf{5}~\times~\textbf{8}\\ \textbf{DOT~MATRIX~DISPLAYS}$

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 _n per dot/color	5	5	5	V

MODEL NUMBERS							
YELLOW	PAR' HER	T NO. GREEN	MULTI- COLOR	DESCRIPTION	PACKAGE DIMENSION	INTERNAL CIRCUIT DIAGRAM	
GMC2885C GMA2885C	GMC2985C GMA2985C	GMC2485C GMA2485C	GMA2685C	Anode column, cathode row Cathode column, anode row Cathode column, anode row	A A B	A B C	

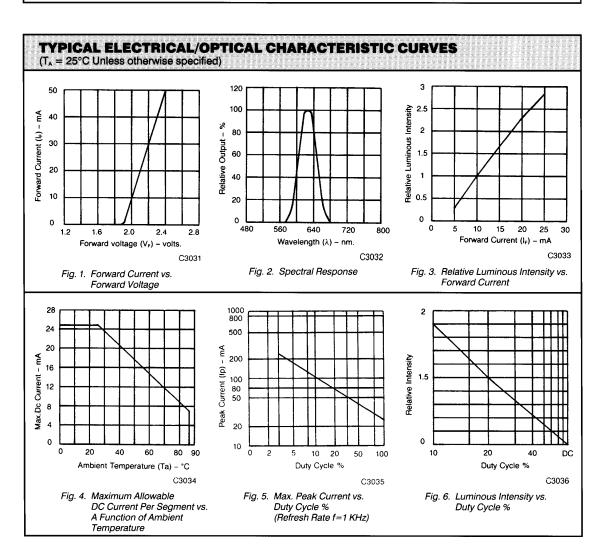


ELECTRICAL/OPTICAL CH GMX 2485C	ARACTERISTIC	S (T _A = 25°	°C Unless	otherwise s	pecified)
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Average luminous intensity		3000		μcd	I _F =20 mA
Peak emission wavelength		565		nm	I _F =20 mA
Spectral line half-width		30		nm	I _F =20 mA
Forward voltage, any dot		2.1	2.8	٧	I _F =20 mA
Reverse voltage, any dot			100	μΑ	V _R =5 V



2.3" 5×8 DOT MATRIX DISPLAYS

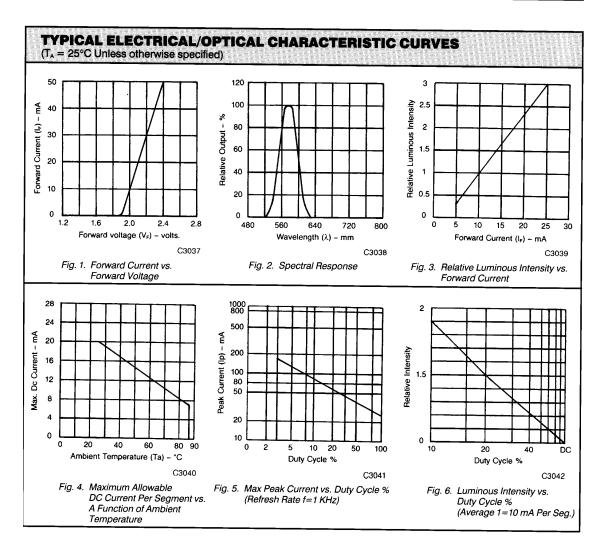
ELECTRICAL/OPTICAL CH GMX 2985C	IARACTERISTIC	S (T _A = 25	°C Unless	otherwise s	pecified)
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Average luminous intensity		3000		μcd	I _F =20 mA
Peak emission wavelength		635		nm	I _F =20 mA
Spectral line half-width		30		nm	I _F =20 mA
Forward voltage, any dot		2.1	2.8	٧	I _F =20 mA
Reverse voltage, any dot			100	μΑ	V _R =5 V





$2.3^{\prime\prime}\,5 imes 8$ DOT MATRIX DISPLAYS

ELECTRICAL/OPTICAL CHARACTERISTICS (T _A = 25°C Unless otherwise specified) GMX 2885C					
PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
Average luminous intensity		3000		μcd	I _F =20 mA
Peak emission wavelength		585		nm	I _E =20 mA
Spectral line half-width		30		nm	I _F =20 mA
Forward voltage, any dot		2.1	2.8	V	I _E =20 mA
Reverse voltage, any dot			100	μΑ	V _R =5 V

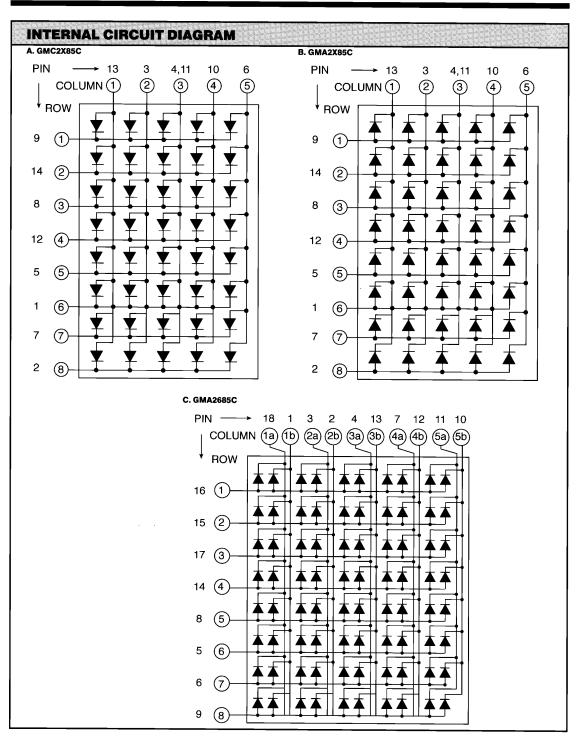




$\textbf{2.3''}\,\textbf{5}\times\textbf{8}$ DOT MATRIX DISPLAYS

PIN NO.	GMC2X85C	GMA2X85C	GMC2685C
1	Cathode row 6	Anode row 6	Cathode column 1 green
2	Cathode row 8	Anode row 8	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 5	Anode row 5	Anode row 6
6	Anode column 5	Cathode column 5	Anode row 7
7	Cathode row 7	Anode row 7	Cathode column 4 HER
8	Cathode row 3	Anode row 3	Anode row 5
9	Cathode row 1	Anode row 1	Anode row 8
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
15			Anode row 1
15			Anode row 3
15			Cathode column 1 HER







2.3" 5 X 8 DOT MATRIX DISPLAYS

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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.