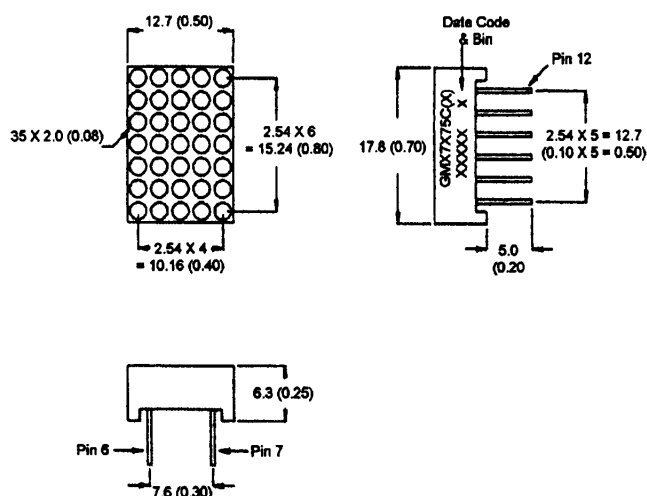


**Superbright Red GMX7275C
Superbright Red GMX7275CA**

PACKAGE DIMENSIONS



DESCRIPTION

The GMX7275C(X) a 5 X 7, Superbright red dotmatrix display. Populated with GaAlAs/GaAs Single Hetero Junction LEDs, it has a grey face with white segment color.

FEATURES

0.7" (17.2mm) character height.
Low power requirement.
Wide 130° viewing angle.
High brightness and contrast
5 X 7 array with X-Y select.
X-Y stackable.
Easy mounting on P.C. board.

NOTE: Dimensions are in mm (inch).
Tolerances are ± 0.25 (0.1) unless otherwise noted.
All pins are 0.5 (.02).

MODEL NUMBERS

<u>Part Number</u>	<u>Colour</u>	<u>Description</u>
GMA7275C	AlGaAs Red	Common anode row.
GMA7275CA	AlGaAs Red	Common anode row, alternate pin-out.
GMC7275C	AlGaAs Red	Common cathode row.
GMC7275CA	AlGaAs Red	Common cathode row, alternate pin-out.

(For other color options, contact your local area Sales Office)

ABSOLUTE MAXIMUM RATING ($T_A = 25^\circ\text{C}$ unless otherwise specified)

	Superbright Red	Units
Peak forward current per segment (Duty cycle 1/10, 10KHz)	200	mA
Continuous IF per segment	30	mA
Power dissipation per segment	100*	mW
*Derate linearly from 25°C	0.5	mW/°C
Reverse voltage VR per segment	5	Volts
Operating and storage temperature range.....	-25°C to +85°C	
Soldering time at 260°C..... (1/16" below seating plane)	3 sec	

ELECTRO - OPTICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

	Superbright Red	Test Condition
Luminous Intensity/Dot Digit average (Typical)	5000ucd	$I_F = 20 \text{ mA}$
Forward voltage (V_F) typical	1.8V	$I_F = 20 \text{ mA}$
maximum	2.5V	$I_F = 20 \text{ mA}$
Peak wavelength (nm)	660nm	$I_F = 20 \text{ mA}$
Spectral line half width (nm)	20nm	$I_F = 20 \text{ mA}$
Reverse breakdown voltage V_R	5V	$I_R = 100 \mu\text{A}$

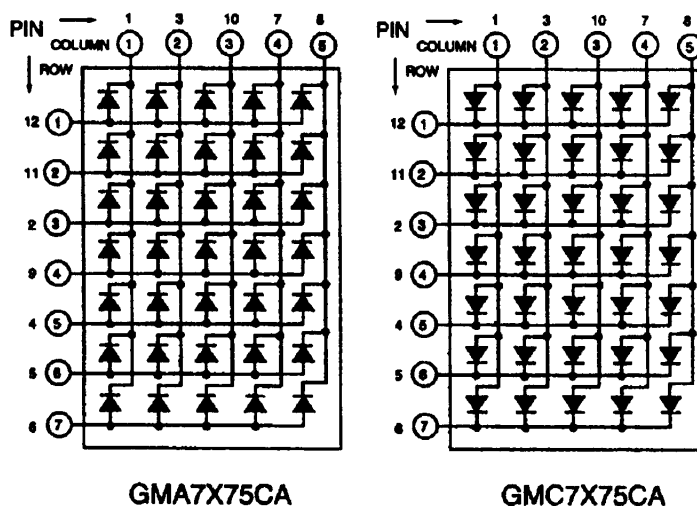
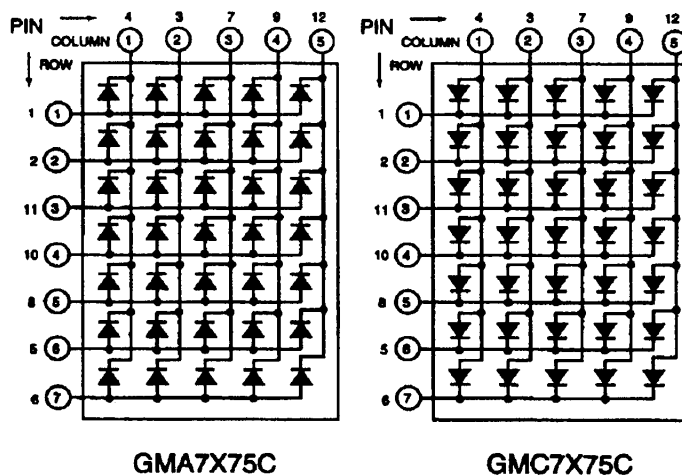
PIN CONNECTION:**GMX7X75C**

GMA7X75C		GMC7X75C	
Pin Number	Function	Pin Number	Function
1	Anode Row 1	1	Cathode Row 1
2	Anode Row 2	2	Cathode Row 2
3	Cathode Column 2	3	Anode Column 2
4	Cathode Column 1	4	Anode Column 1
5	Anode Row 6	5	Cathode Row 6
6	Anode Row 7	6	Cathode Row 7
7	Cathode Column 3	7	Anode Column 3
8	Anode Row 5	8	Cathode Row 5
9	Cathode Column 4	9	Anode Column 4
10	Anode Row 4	10	Cathode Row 4
11	Anode Row 3	11	Cathode Row 3
12	Cathode Column 5	12	Anode Column 5

GMX7X75CA

GMC7X75CA		GMA7X75CA	
Pin Number	Function	Pin Number	Function
1	Anode Column 1	1	Cathode Column 1
2	Cathode Row 3	2	Anode Row 3
3	Anode Column 2	3	Cathode Column 2
4	Cathode Row 5	4	Anode Row 5
5	Cathode Row 6	5	Anode Row 6
6	Cathode Row 7	6	Anode Row 7
7	Anode Column 4	7	Cathode Column 3
8	Anode Column 5	8	Cathode Column 5
9	Cathode Row 4	9	Anode Row 4
10	Anode Column 3	10	Cathode Column 3
11	Cathode Row 2	11	Anode Row 2
12	Cathode Row 1	12	Anode Row 1

SCHEMATICS:



GRAPHICAL DETAIL: AlGaAs Red ($T_A = 25^\circ\text{C}$ unless otherwise specified)

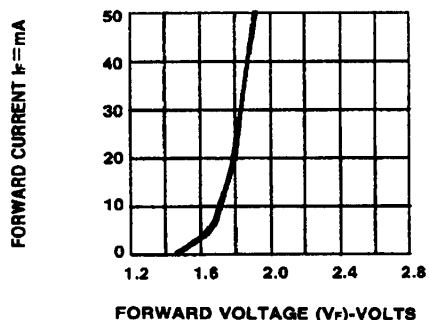


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

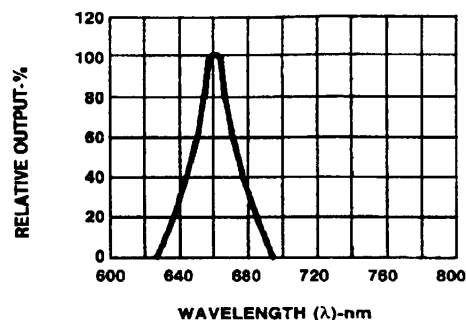


Fig.2 SPECTRAL RESPONSE

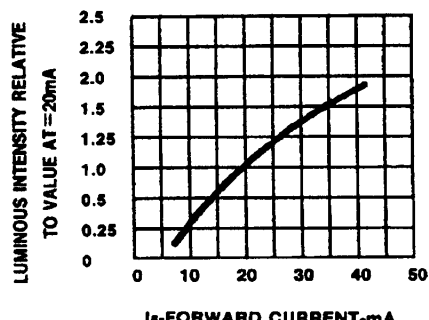


Fig.3 RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT

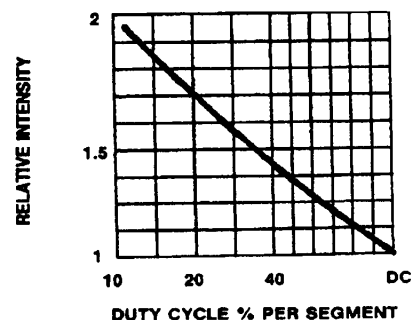


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

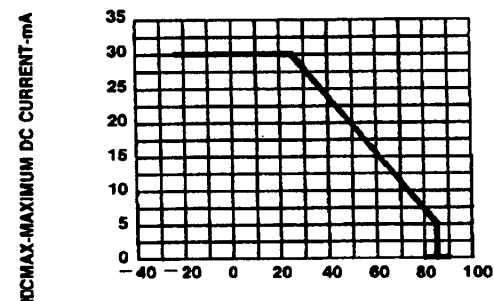


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER
SEGMENT VS. A FUNCTION OF AMBIENT
TEMPERATURE.

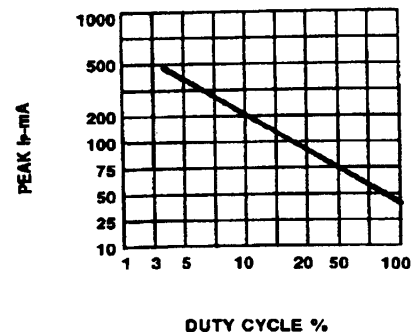


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE $f = 1 \text{ KHz}$)

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