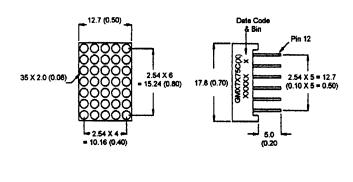
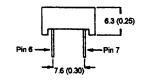


Superbright Red GMX7275C **Superbright Red GMX7275CA**

PACKAGE DIMENSIONS





NOTE: Dimensions are in mm (inch).

Tolerances are ± 0.25 (0.1) unless otherwise noted.

All pins are 0.5 (.02).

DESCRIPTION

The GMX7275C(X) a 5 X 7, Superbright red dotmatrix display. **Populated** 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.

MODEL NUMBERS

Part Number

Colour

Description

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°C unless otherwise specified)

	Superbright Red	Units
Peak forward current per segment	200	mA
(Duty cycle 1/10, 10KHz)		
Continous 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		3 sec
(1/16" below seating plane)		

ELECTRO - OPTICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

	Superbright Red	Test <u>Condition</u>
Luminous Intensity/Dot		
Digit average (Typical)	5000 ucd	$I_F = 20 \text{ mA}$
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)	20 nm	$I_F = 20 \text{mA}$
Reverse breakdown voltage V _R	5V	$I_R = 100uA$



PIN CONNECTION:

GMX7X75C

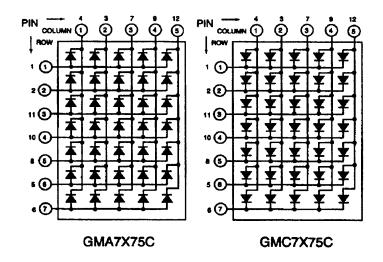
GMA7X75C		GMC7X75C	
Pin Number	Function	Pin Number	Function
1	Anode Row 1	1	Cathode Row 1
2	Anode Row 2	2	Cathode Row 2
3	Cathode Column 2	3	Anode Column2
4	Cathode Column 1	4	Anode Column 1
5	Anode Row 6	5	Cathode Row 6
6	Anode Row 7	6	Cathgode Row 7
7	Cathode Column 3	7	Anode Column 3
8	Anode Row 5	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

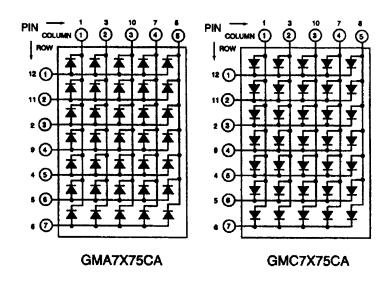
GMX7X75CA

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	



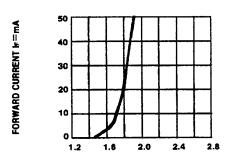
SCHEMATICS:



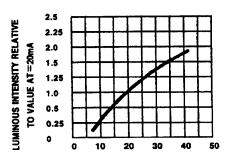




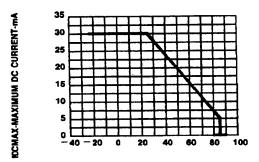
GRAPHICAL DETAIL: AIGaAs Red (T_A = 25°C unless otherwise specified)



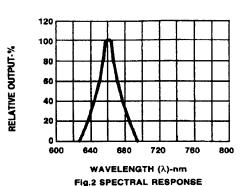
FORWARD VOLTAGE (Vr)-VOLTS
Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

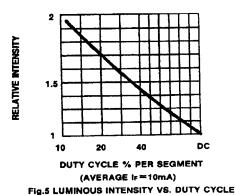


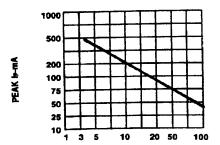
IP-FORWARD CURRENT-MA
Fig.3 RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



TA AMBIENT TEMPERATURE ©
FIG.4 MAXIMUM ALLOWABLE DC CURRENT PER
SEGMENT VS. A FUNCTION OF AMBIENT
TEMPERATURE.







DUTY CYCLE %
Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE !=1 KMz)



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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.