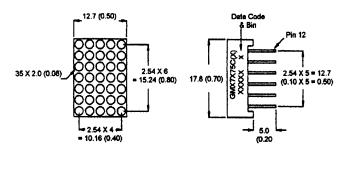
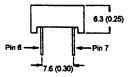


Superbright Red GMX7275C Superbright Red GMX7275CA

PACKAGE DIMENSIONS





NOTE: Dimensions are in mm (inch). Tolerances are \pm 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 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.

MODEL NUMBERS

Part NumberColourDescriptionGMA7275CAlGaAs RedCommon anode row.GMA7275CAAlGaAs RedCommon anode row, alternate pin-out.GMC7275CAlGaAs RedCommon cathode row.GMC7275CAAlGaAs RedCommon cathode row.GMC7275CAAlGaAs RedCommon cathode row, alternate pin-out.(For other color options, contact your local area Sales Office)Common cathode row.



ABSOLUTE MAXIMUM RATING (T_A = 25°C unless otherwise specified)

Peak forward current per segment	Superbright Red 200	Units 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	l _F = 20 mA
Forward voltage (V _F)		
typical	1.8V	i _F = 20 mA
maximum	2.5V	l _F = 20 mA
Peak wavelength (nm)	660nm	l _F = 20 mA
Spectral line half width (nm)	20nm	I _F = 20mA
Reverse breakdown voltage V _R	5V	i _R = 100uA



.

PIN CONNECTION:

GMX7X75C

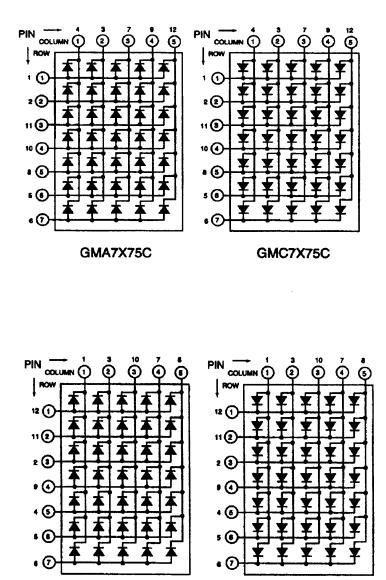
GMA7X75C		G	GMC7X75C	
Pin Number	Function	Pin Number	Function	
1	Anode Row 1	1	Cathode Row 1	
2	Anode Row 2	2	Cathode Row 2	
3	Cathode Column 2	3	Anode Column2	
4	Cathode Column 1	4	Anode Column 1	
5	Anode Row 6	5	Cathode Row 6	
6	Anode Row 7	6	Cathgode Row 7	
7	Cathode Column 3	7	Anode Column 3	
8	Anode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

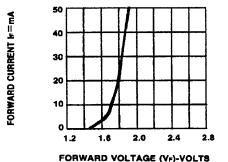


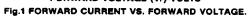
GMA7X75CA

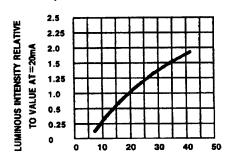
GMC7X75CA

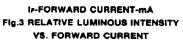


GRAPHICAL DETAIL: AIGaAs Red (T_A = 25°C unless otherwise specified)

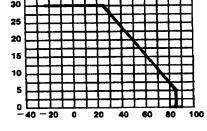




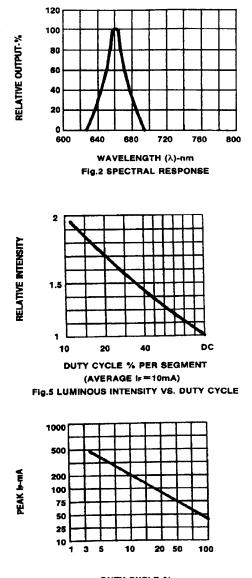








TA AMBIENT TEMPERATURE C FIG.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE.







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