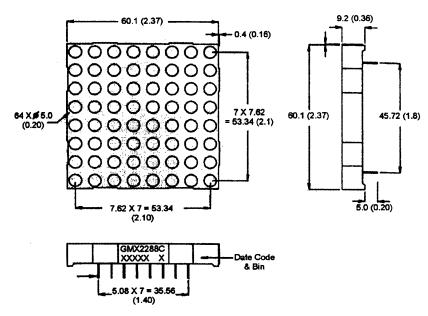


AlGaAs Red GMA2288C AlGaAs Red GMC2288C

PACKAGE DIMENSIONS



DESCRIPTION

The GMX2288C 8 X 8, Single Hetero Junction AlGaAs Red dot matrix display. It has a grey face with neutral segment color.

FEATURES

2.3" (58.4mm) character height.
Low power requirement.
Wide 130° viewing angle.
High brightness and contrast
8 X 8 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 NUMBER

Part NumberColourDescriptionGMA2288CAlGaAs RedCommon anode row.GMC2288CAlGaAs RedCommon Cathode row.(For other color options, contact your local area Sales Office)



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

	AlGaAs 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 segments	5	Volts
Operating and storage temperature range		25°C to +85°C
• • • •		
(1/16" below seating plane)		

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

	AlGaAs Red	Test <u>Condition</u>
Luminous Intensity/Dot		
Digit average (Typical)	5000ucd	l _F = 20mA
Forward voltage (V _F)		
typical	1.8V	l _F = 20 mA
maximum	2.5V	l _F = 20 mA
Peak wavelength (nm)	660nm	i _F = 20 mA
Spectral line half width (nm)	20nm	$l_F = 20 mA$
Reverse breakdown voltage V _R	5V	I _R = 100uA

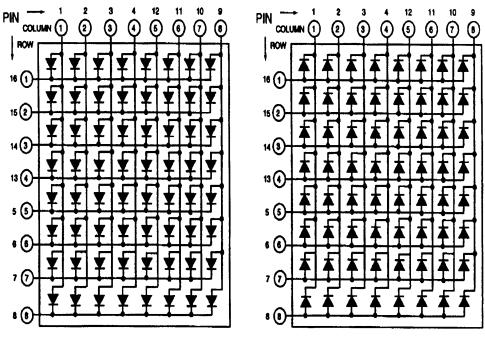


PIN CONNECTION:

GMA2288C			GMC2288C	
Pin Number	Function	Pin Number	Function	
1	Cathode Column 1	1	Anode Column 1	
2	Cathode Column 2	2	Anode Column 2	
3	Cathode Column 3	3	Anode Column 3	
4	Cathode Column 4	4	Anode Column 4	
5	Anode Row 5	5	Cathode Row 5	
6	Anode Row 6	6	Cathode Row 6	
7	Anode Row 7	7	Cathode Row 7	
8	Anode Row 8	8	Cathode Row 8	
9	Cathode Column 8	9	Cathode Column 8	
10	Cathode Column 7	10	Cathode Column 7	
11	Cathode Column 6	11	Cathode Column 6	
12	Cathode Column 5	12	Cathode Column 5	
13	Anode Row 4	13	Anode Row 4	
14	Anode Row 3	14	Anode Row 3	
15	Anode Row 2	15	Anode Row 2	
16	Anode Row 1	16	Anode Row 1	



SCHEMATIC:

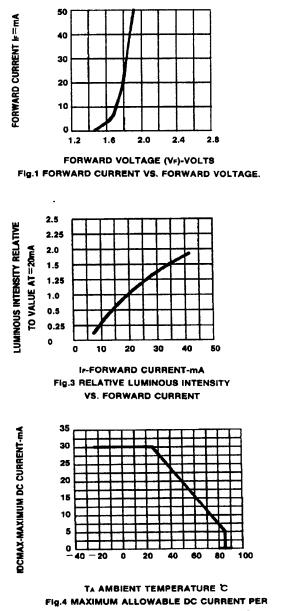


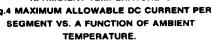
GMC2X88C

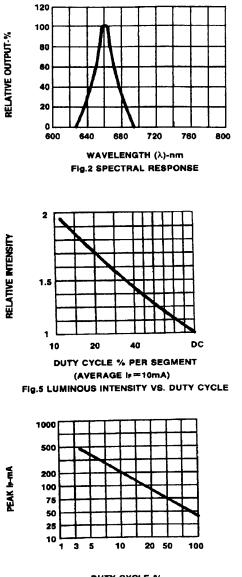
GMA2X88C



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







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



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