

Superbright Red GMA8275C Superbright Red GMC8275C

PACKAGE DIMENSIONS 22.65 (0.89) 0.3 8.0 (0.31) (0.01) 00000 00000 00000 4.57 X 6 00000 = 24.42 (1.08) 35 X 3.0 22.85 (0.90) 31.8 (1.25) (0.12) 100000 00000 00000 4.57 X 4 = 18.28 (0.72)4.3 (0.17) GMX8275C XXXXX X Date Code Pin 1

DESCRIPTION

The GMX8275C is a 5 X 7, Superbright red dot matrix display. Populated with GaAIAs/GaAs Single Hetero Junction LEDs, it has a grey face with white segment color.

FEATURES

1.2" (30.5mm) character height.
Low power requirement.
Wide 130 degree 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).

2.54 X 6 = 15.24 (0.60)

MODEL NUMBERS

Part NumberColourDescriptionGMA8275CAlGaAs RedCommon anode row.GMC8275CAlGaAs RedCommon cathode row.(For other color options, contact your local area Sales Office)



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 ($T_A = 25^{\circ}C$ unless otherwise specified)

	Superbright 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	I _F = 20 mA
Peak wavelength (nm)	660nm	l _F = 20 mA
Spectral line half width (nm)	20nm	$I_{F} = 20 m A$
Reverse breakdown voltage V _R	5V	I _R = 100uA



PIN CONNECTION:

GMA8275C

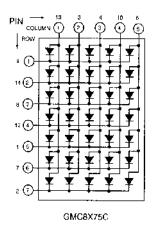
Din Number	Function	Din Number	Function
Pin Number		Pin Number	
1	Anode Row 5	8	Anode Row 3
2	Anode Row 7	9	Anode Row 1
3	Cathode Column 2	10	Cathode Column 4
4	Cathode Column 3	11	Cathode Column 3
5	Anode Row 4	12	Anode Row 4
6	Cathode Column 5	13	Cathode Column 1
7	Anode Row 6	14	Anode Row 2

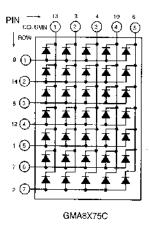
GMC8275C

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5	Cathode Row 1	12	Cathode Row 4
6	Anode Column 5	13	Anode Column 1
7	Cathode Row 6	14	Cathode Row 2



SCHEMATIC:

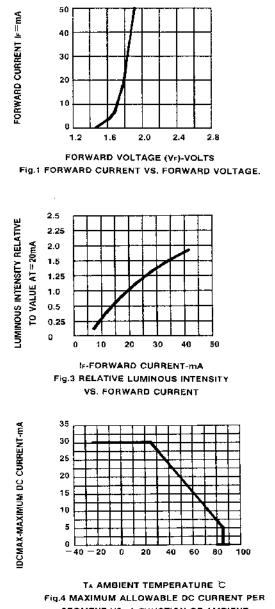




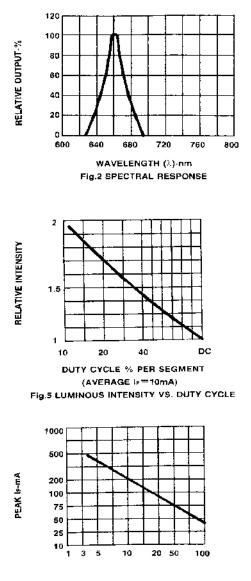
VIPG Sunnyvale 09:18:97



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



IGA MAXIMUM ALLOWABLE DC CURRENT PE SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE.



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



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