# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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### 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 2.54 X 6 = 15.24 (0.60)

#### 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).

#### 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<sub>A</sub> = 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	I <sub>F</sub> = 20mA
Forward voltage (V <sub>F</sub> )		
typical	1.8V	l <sub>F</sub> = 20 mA
maximum	2.5V	l <sub>F</sub> = 20 mA
Peak wavelength (nm)	660nm	I <sub>F</sub> = 20 mA
Spectral line half width (nm)	20nm	$I_{\rm F} = 20 {\rm mA}$
Reverse breakdown voltage V <sub>R</sub>	5V	і <sub>в</sub> = 100uА



#### **PIN CONNECTION:**

### GMA8275C

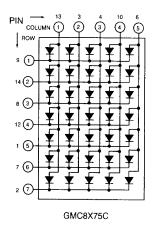
Pin Number	Function	Pin Number	Function
1	Anode Row 5	8	Anode Row 3
2	Anode Row 7	9	Anode Row 1
3	Cathode Column 2	10	Cathode Column 4
4	Cathode Column 3	11	Cathode Column 3
5	Anode Row 4	12	Anode Row 4
6	Cathode Column 5	13	Cathode Column 1
7	Anode Row 6	14	Anode Row 2
7	Anode Row 6	14	Anode Row 2

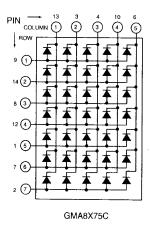
## GMC8275C

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



#### SCHEMATIC:

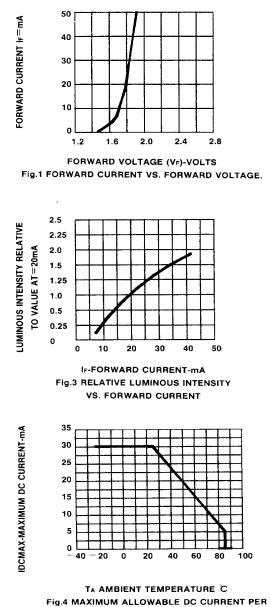




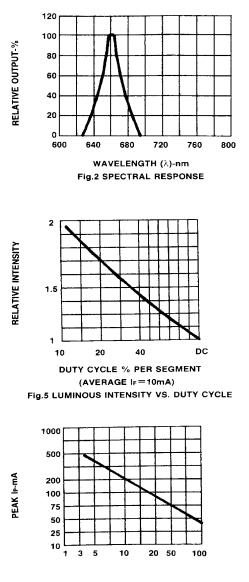
VIPG Sunnyvale 09:18:97



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







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



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- 2. 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.