

**1.88 INCH (47.7)mm) 8 X 8
DOT MATRIX STICK DISPLAY**

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ABSOLUTE MAXIMUM RATING ($T_A = 25^\circ\text{C}$ unless otherwise specified)

	Superbright Yellow	Units
Peak forward current per segment (Duty cycle 1/10, 10KHz)	90	mA
Continuous IF per segment	25	mA
Power dissipation per segment	70*	mW
*Derate linearly from 25°C	0.33	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)		

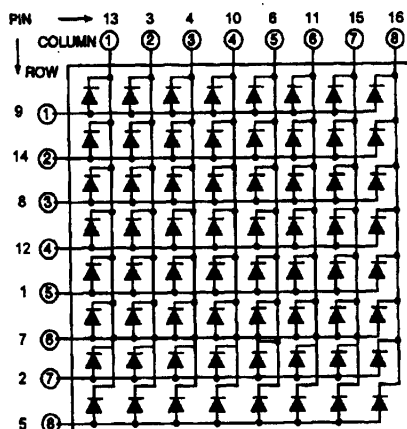
ELECTRO - OPTICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

	Superbright Yellow	Test Condition
Luminous Intensity/Dot Digit average (Typical)	5000ucd	$I_F = 20\text{mA}$
Forward voltage (V_F)		
typical	2.1V	$I_F = 20\text{ mA}$
maximum	2.8V	$I_F = 20\text{ mA}$
Peak wavelength (nm)	592nm	$I_F = 20\text{ mA}$
Spectral line half width (nm)	17nm	$I_F = 20\text{mA}$
Reverse breakdown voltage V_R	5V	$I_R = 100\text{uA}$

PIN CONNECTION: GMA4Y881C

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

SCHEMATIC: GMA4Y881C



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GRAPHICAL DETAIL: Superbright Yellow ($T_A = 25^\circ\text{C}$ unless otherwise specified)

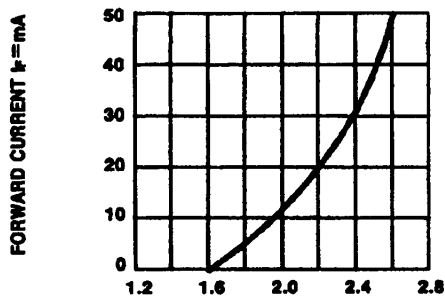


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

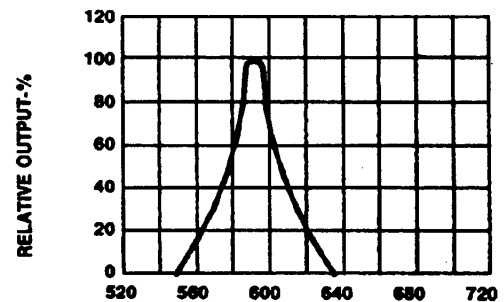


Fig.2 SPECTRAL RESPONSE

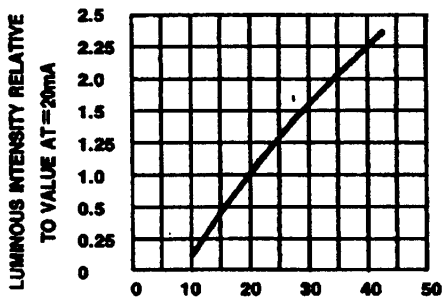


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

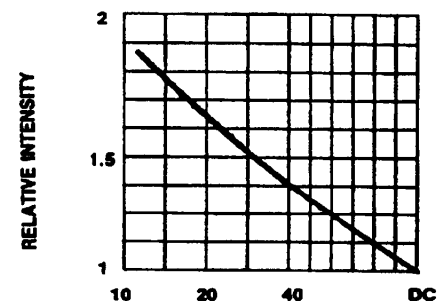


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE
(AVERAGE $I_F = 10\text{mA}$)

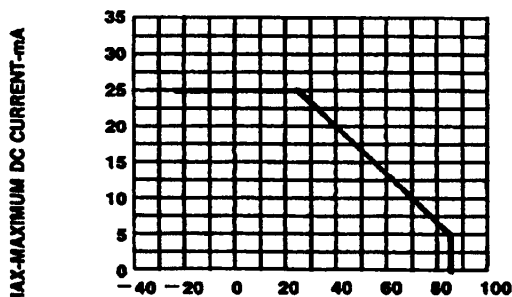


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE.

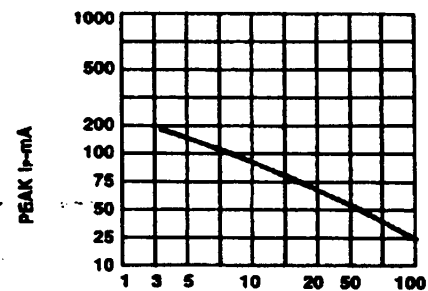


Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE $f = 1\text{ KHz}$)

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