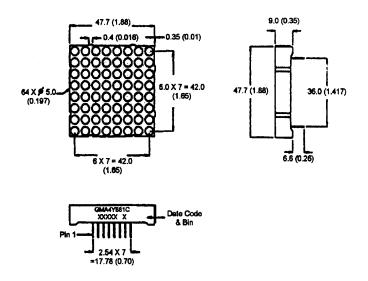


Superbright Yellow GMA4Y881C

PACKAGE DIMENSIONS



DESCRIPTION

The GMA4Y881C is a 8 X 8 populated with super bright AllnGaP yellow LEDs. It has a grey face with neutral diffused segment color.

FEATURES

1.88" (47.7mm) 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 Number

Colour

Description

GMA4Y881C

Superbright Yellow Common anode row.

(For other color options, contact your local area Sales Office)



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

	Superbright	
	Yellow	Units
Peak forward current per segment	90	mA
(Duty cycle 1/10, 10KHz)		
Continous 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
• • •		3 sec
(1/16" below seating plane)		

ELECTRO - OPTICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

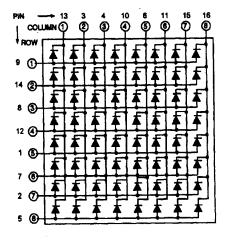
	Superbright Yellow	Test Condition
Luminous Intensity/Dot	1011011	<u>Somanion</u>
Digit average (Typical)	5000ucd	I _F = 20mA
Forward voltage (V _F)		
typical	2.1V	$I_F = 20 \text{ mA}$
maximum	2.8V	$I_F = 20 \text{ mA}$
Peak wavelength (nm)	592nm	$I_F = 20 \text{ mA}$
Spectral line half width (nm)	17nm	$I_F = 20 \text{mA}$
Reverse breakdown voltage V _R	5V	I _R = 100uA



PIN CONNECTION: GMA4Y881C

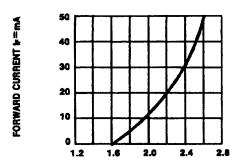
Pin Number	Function	Pin Number	Function
1	Anode Row 5	13	Cathode Column 1
2	Anode Row 7	14	Anode Row 2
3	Cathode Column 2	15	Cathode Column 7
4	Cathode Column 3	16	Cathode Column 8
5	Anode Row 8		
6	Cathode Column 5		
7	Anode Row 6		
8	Anode Row 3		
9	Anode Row 1		
10	Cathode Column 4		
11	Cathode Column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

SCHEMATIC: GMA4Y881C

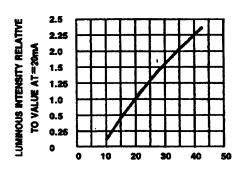




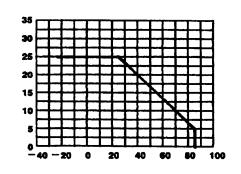
GRAPHICAL DETAIL: Superbright Yellow (T_A = 25°C unless otherwise specified)



FORWARD VOLTAGE (V_F)-VOLTS
Fig.1 FORWARD CURRENT V8. FORWARD VOLTAGE.

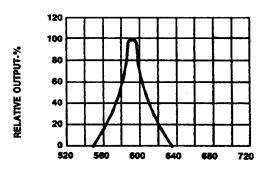


Ir-FORWARD CURRENT-mA
Fig.3 RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT

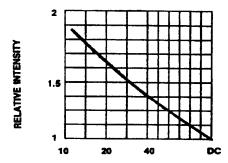


DCMAX-MAXIMUM DC CURRENT-MA

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



WAVELENGTH (λ)-nm Fig.2 SPECTRAL RESPONSE



DUTY CYCLE % PER SEGMENT
(AVERAGE I=10mA)
Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

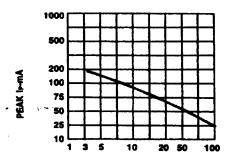


Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE (=1 KHz)



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