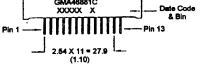


HER Red / Green GMA46881C (BI-COLOR)

47.7 (1.88) 9.0 (0.35) 0.4 (0.016) - 0.6 (0.24) 000000 Pin 13 0000000 00000 000000 6.0 X 7 = 42.0 47.7 (1.88) (0.2<u>0</u>) 36.0 (1.42))0000000 200000)QQOQQÕ OOOO(6 0 X 7 = 42.0 (1.65) 6.5 (0.26) GMA46881C te Code XXXXX X & Bin



PACKAGE DIMENSIONS

DESCRIPTION © GMA46881C a con

The GMA46881C a common cathode column 8 X 8, bicolor High Efficiency Red / green dotmatrix display. The GMA47881C is a 8 X 8 populated with super bright AllnGaP yellow LEDs. Both have grey faces with neutral segment color.

FEATURES

1.85" (47.0mm) 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 \pm 0.25 (0.1) unless otherwise noted. All pins are 0.5 (.02).

MODEL NUMBER

Part NumberColourDescriptionGMA46881CHER Red/GreenCommon anode row.(For other color options, contact your local area Sales Office)



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

	HER	Green	Units
Peak forward current per segment	90	90	mA
(Duty cycle 1/10, 10KHz)			
Continous IF per segment	25	25	mA
Power dissipation per segment	70*	70*	mW
*Derate linearly from 25°C	0.33	0.33	mW/°C
Reverse voltage VR per segment	5	5	Volts
Operating and storage temperature ra	ange		25°C to +85°C
(1/16" below seating plane)			

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

			Test
	HER	Green	Condition
Luminous Intensity/Dot			
Digit average (Typical)	2200ucd	1600ucd	l _F = 20mA
Forward voltage (V _F)			
typical	2.0V	2.1V	l _F = 20 mA
maximum	2.8V	2.8V	l _F = 20 mA
Peak wavelength (nm)	. 635nm	570nm	l _F = 20 mA
Spectral line half width (nm)	45nm	30nm	l _F = 20mA
Reverse breakdown voltage V _R	5V	5V	l _R = 100uA



PIN CONNECTION:

GMA46881C

n Number	Function	Pin Number	Function
1	Anode Row 2	13	Anode Row 7
2	Cathode Column 2b	14	Cathode Column 7b
3	Cathode Column 2a	15	Cathode Column 7a
4	Anode Row 4	16	Anode Row 4
5	Cathode Column 4b	17	Cathode Column 5b
6	Cathode Column 4a	18	Cathode Column 5a
7	Anode Row 6	19	Anode Row 3
8	Cathode Column 6b	20	Cathode Column 3b
9	Cathode Column 6a	21	Cathode Column 3a
10	Anode Row 8	22	Anode Row 1
11	Cathode Column 8b	23	Cathode Column 1b
12	Cathode Column 8a	24	Cathode Column 1a

Note "a" = High Efficiency Red LED "b" = Green LED

SCHEMATIC:

PIN				÷.	5 18 1 PO		8 15 1 9 (9)(14 12 11 79 69 69
ROW	۲	\vdash	+-7	\vdash	 - `ነ	- }		$ \rightarrow $
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4 @-	ŦŦ	ŦŦ	ŧ₹	ŦŦ	T		F	T
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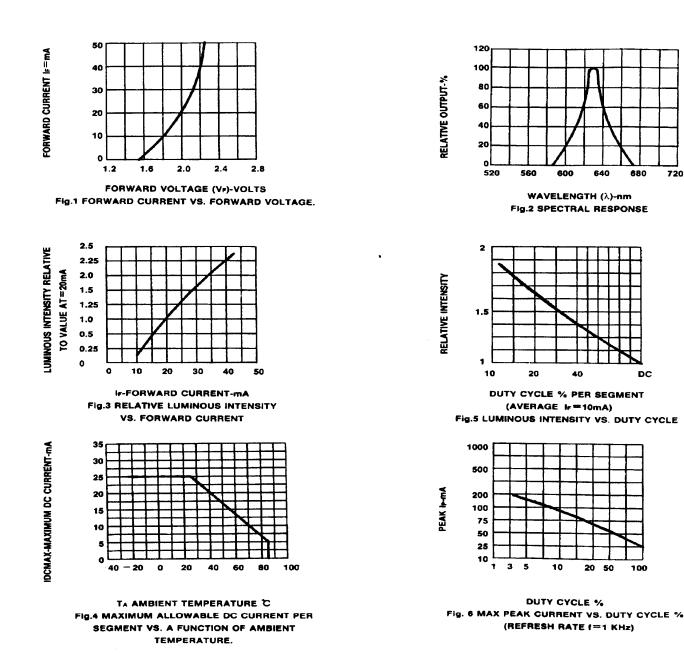
720

680

DC

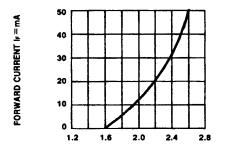
100

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

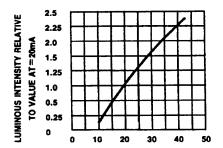


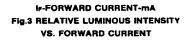


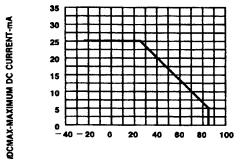
GRAPHICAL DETAIL: Green (T_A = 25°C unless otherwise specified)

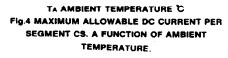


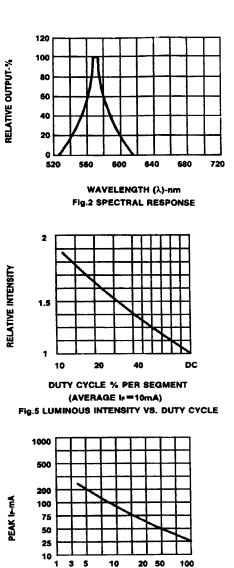












DUTY CYCLE % Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)



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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.

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