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!



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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) 64 X ≢ 5.0 (0.20) 36.0 (1.42))0000000 <u>, ÖÖÖÖÖÖÖ</u> 000000 OOOO($60 \times 7 = 42.0 (1.65)$ 6.5 (0.26) GMA46881C ate Code & Bin XXXXX X

Pin 13

DESCRIPTION

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 AlinGaP vellow 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 ± 0.25 (0.1) unless otherwise noted. All pins are 0.5 (.02).

MODEL NUMBER

2.54 X 11 = 27.9 (1.10)

Pin 1

Part Number Colour Description GMA46881C **HER Red/Green** Common anode row. (For other color options, contact your local area Sales Office)

PACKAGE DIMENSIONS



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
Soldering time at 260°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

in 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			2212 29090	00	5 18 1 19 69 (179 5969(6		14 12 11 79 69 66	
ROW		H	F	F	Fγ	1-5	F	1-51	1
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16 (5)-									
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13 (7)-	AF	AF	T	T	ŦŦ	AF	A	A	
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10 10-	TT.	IT.	-T.T	TT.	ΤŢ.	TT_	TT_	II [



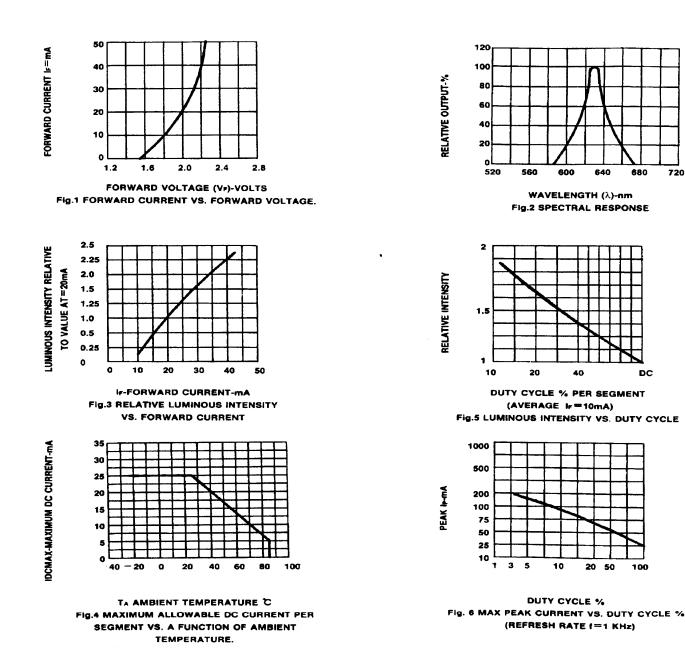
720

680

DC

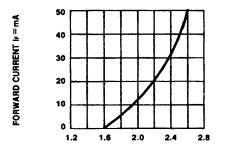
100

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

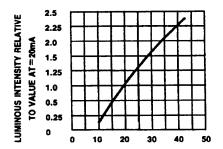


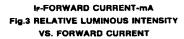


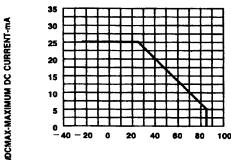
GRAPHICAL DETAIL: Green (T_A = 25°C unless otherwise specified)

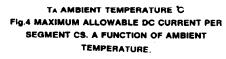


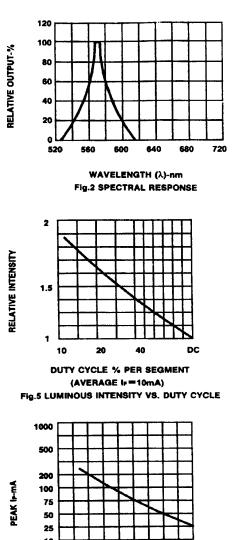












10 1 3 5 10 20 50 100

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.