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

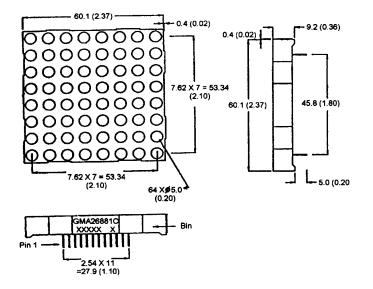
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HER Red / Green GMA26881C (BI-COLOR)

PACKAGE DIMENSIONS



DESCRIPTION

The GMA26881C a common cathode column 8 X 8, bicolor High Efficiency Red / Green dot matrix display. It has a grey face with neutral segment color.

FEATURES

2.3" (58.4mm) 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 NumberColourDescriptionGMA26881CHER 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
Soldering time at 260°C	-		3 sec
(1/16" below seating plane)			

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

	HER	Green	Test <u>Condition</u>
Luminous Intensity/Dot			
Digit average (Typical)	3000ucd	3000ucd	I _F = 20mA
Forward voltage (V _F)			
typical	2.0V	2.1V	l _F = 20 mA
maximum	2.8V	2.8 V	l _F = 20 mA
Peak wavelength (nm)	635nm	570nm	l _F = 20 mA
Spectral line half width (nm)	45nm	30nm	i _F = 20mA
Reverse breakdown voltage V _R	5V	5V	l _R = 100uA



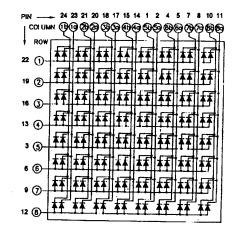
PIN CONNECTION:

GMA26881C

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

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

SCHEMATIC:





560

20

з 5 600

WAVELENGTH (λ)-nm

Fig.2 SPECTRAL RESPONSE

40

(AVERAGE IF=10mA)

640

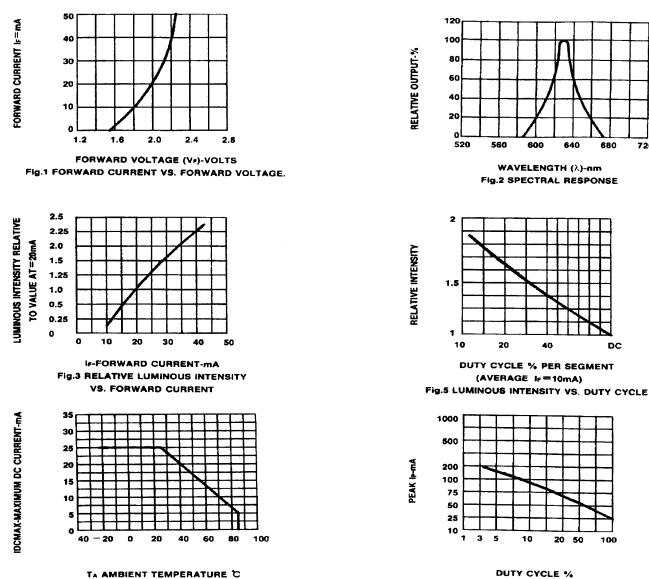
680

DC

100

720

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





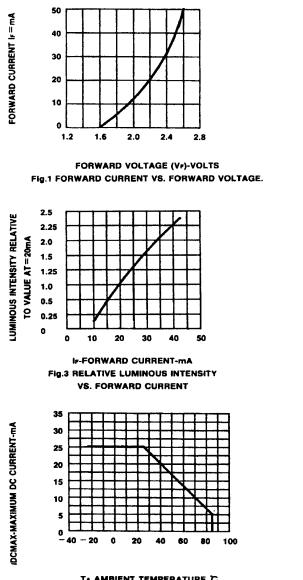
DUTY CYCLE % Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE I=1 KHz)

10

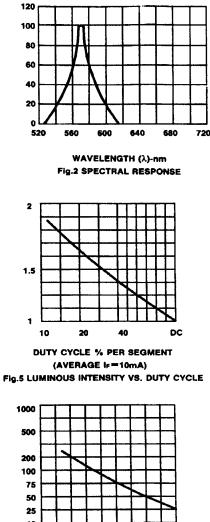
20 50



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



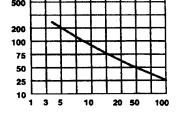




RELATIVE OUTPUT-%

RELATIVE INTENSITY

PEAK IP-mA



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



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