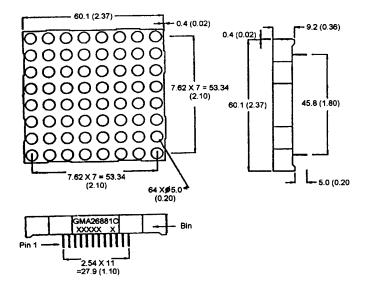


HER Red / Green GMA26881C (BI-COLOR)

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



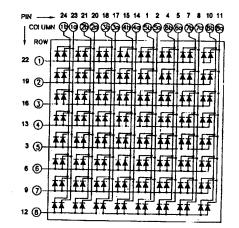
PIN CONNECTION:

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

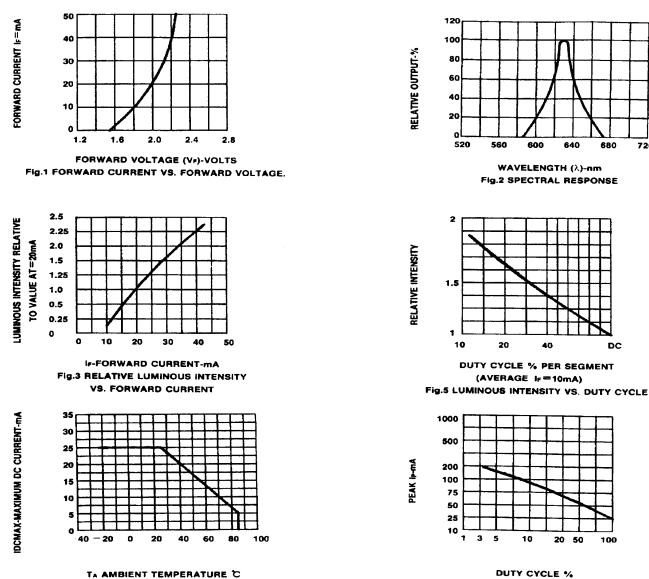
680

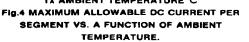
DC

100

720

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





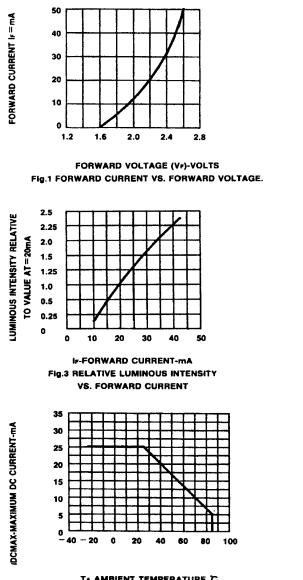
DUTY CYCLE % Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE I=1 KHz)

10

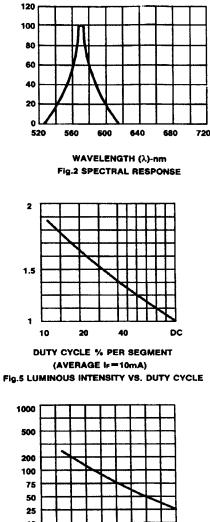
20 50



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



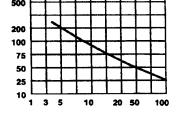




RELATIVE OUTPUT-%

RELATIVE INTENSITY

PEAK IP-mA



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



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