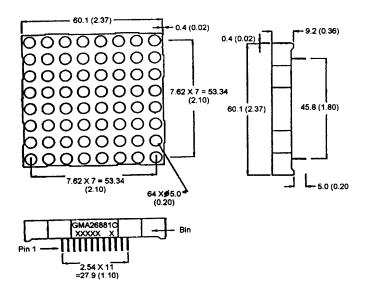


HER Red / Green GMA26881C (BI-COLOR)

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 Number Colour Description

GMA26881C HER Red/Green Common 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
90	90	mA
25	25	mA
70*	70*	mW
0.33	0.33	mW/°C
5	5	Volts
ange	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	25°C to +85°C
		3 sec
)		
	90 25 70* 0.33 5	90 90 25 25 70* 70* 0.33 0.33 5 5

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

	HER	Green	Test Condition
Luminous Intensity/Dot		, +	
Digit average (Typical)	3000ucd	3000ucd	$I_F = 20mA$
Forward voltage (V _F)			
typical	2.0V	2.1V	$I_F = 20 \text{ mA}$
maximum	2.8V	2.8V	$I_F = 20 \text{ mA}$
Peak wavelength (nm)	635nm	570nm	$I_F = 20 \text{ mA}$
Spectral line half width (nm)	45nm	30nm	$I_F = 20mA$
Reverse breakdown voltage V _R	5V	5V	I _R = 100uA



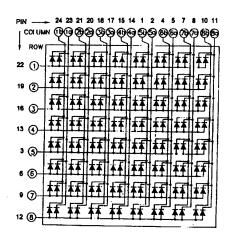
D	IN	CO	A IA	IEC		M.
۳	IN	CU	ΝГ	ICU	IIU	N:

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

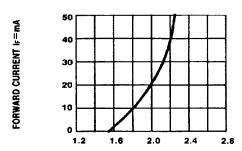
Note "a" = High Efficiency Red LED "b" = Green LED

SCHEMATIC:

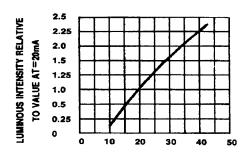




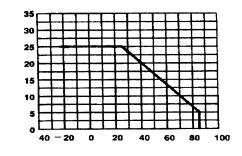
GRAPHICAL DETAIL: High Efficiency Red (T_A = 25°C unless otherwise specified)



FORWARD VOLTAGE (Vr)-VOLTS
Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

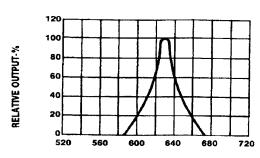


Ir-FORWARD CURRENT-MA
Fig.3 RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT

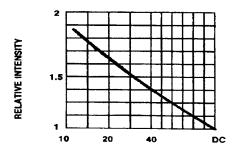


DCMAX-MAXIMUM DC CURRENT-mA

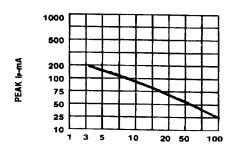
TA AMBIENT TEMPERATURE C
FIG.4 MAXIMUM ALLOWABLE DC CURRENT PER
SEGMENT VS. A FUNCTION OF AMBIENT
TEMPERATURE.



WAVELENGTH (λ)-nm Fig.2 SPECTRAL RESPONSE



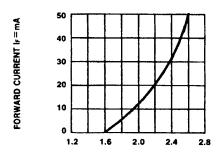
DUTY CYCLE % PER SEGMENT
(AVERAGE IF=10mA)
Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE



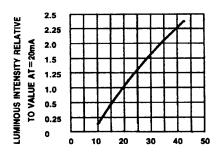
DUTY CYCLE %
Fig. 6 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE (=1 KHz)



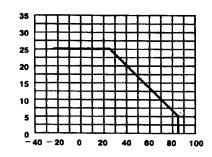
GRAPHICAL DETAIL: Green (T_A = 25°C unless otherwise specified)



FORWARD VOLTAGE (Vr)-VOLTS
Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

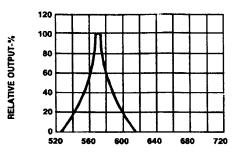


Ir-FORWARD CURRENT-MA
Fig.3 RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT

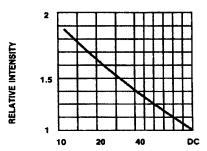


DCMAX-MAXIMUM DC CURRENT-mA

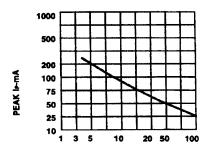
TA AMBIENT TEMPERATURE C
Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER
SEGMENT CS. A FUNCTION OF AMBIENT
TEMPERATURE.



WAVELENGTH (λ)-nm Fig.2 SPECTRAL RESPONSE



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



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



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- 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.