FEATURES

- ♦ Φ5.0MM DOT SIZE
- ♦ 60.2MM×60.2MM OUTLINE
- \Rightarrow 8×8 FORMAT
- ♦ DUAL COLOR DOT MATRIX
- ♦ LOW POWER REQUIREMENT
- ♦ HIGH CONTRAST
- **♦ HIGH BRIGHTNESS**
- ♦ SOLID STATE RELIABILITY

DESCRIPTION

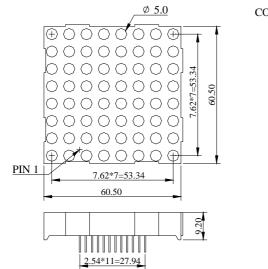
This model is a $\phi 5.0$ dot size, 60.5mm $\times 60.5$ mm outline, 8×8 format, dual color (super-red and yellow-green), common anode, LED dot matrix display. This display utilizes super-red LED chips fabricated from GaAlAs epiwafer on GaAs substrate grown by liquid phase epitaxy and yellow green LED chips fabricated from GaP epiwafer on GaP substrate grown by liquid phase epitaxy. The devices have black face and white dots.

DEVICE

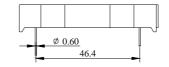
PART NO.	EMITTING COLOR	DESCRIPTION
	Super-Red and Yellow-Green	Row Anode, Black face, White dot

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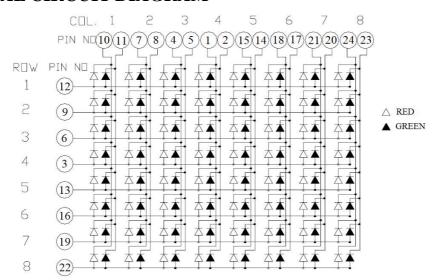
PACKAGE DIMENSION



COL.	1	2	3	4	5	6	7	8	ROW
	\bigcirc	1							
	\bigcirc	2							
	\bigcirc	3							
	\bigcirc	4							
	\bigcirc	5							
	\bigcirc	6							
	\bigcirc	7							
	\bigcirc	8							



INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Cathode Col. 4 R	9	Anode Row 2	17	Cathode Col. 6 G
2	Cathode Col. 4 G	10	Cathode Col. 1 R	18	Cathode Col. 6 R
3	Anode Row 4	11	Cathode Col. 1 G	19	Anode Row 7
4	Cathode Col. 3 R	12	Anode Row 1	20	Cathode Col. 7 G
5	Cathode Col. 3 G	13	Anode Row 5	21	Cathode Col. 7 R
6	Anode Row 3	14	Cathode Col. 5 G	22	Anode Row 8
7	Cathode Col. 2 R	15	Cathode Col. 5 R	23	Cathode Col. 8 G
8	Cathode Col. 2 G	16	Cathode Row 6	24	Cathode Col. 8 R

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ABSOLUTE MAXIMUM RATING AT $T_A = 25 \,^{\circ}$ C

PARAMETER	RED	GREEN		
Power Dissipation per dot, P _{AD} (mW)	60	75		
Peak Forward Current per dot, I _{PF} (mA) (1/8 duty cycle, 0.1mm pulse width)	80	80		
Continuous Forward Current per dot, I _{AF} (mA)	20	25		
Reverse Voltage per dot, V _R (V)	5	5		
Operating Temperature Range, T _{opr} - 25°C to + 85°C				
Storage Temperature Range, T _{stg} - 30°C to + 90°C				
Solder Temperature: 1 / 16 inch below seating plane for 3 seconds at 260° C				

ELECTRO - OPTICAL CHARACTERISTICS AT $T_A = 25 \,^{\circ}$ C

PARAMETER		RED		GREEN		
		TYP	MAX	MIN	TYP	MAX
Luminous Intensity per chip, I _V (mcd, I _F =20mA)	5	7.5	10	10	15	20
Peak Emission Wavelength, λ _P (nm, I _F =20mA)		640			568	
Domonant Wavelength, λ_d (nm, I_F =20mA)		635			573	
Special Line Half-Width, $\Delta\lambda$ (nm, I_F =20mA)		20			30	
Forward Voltage per dot, V _F (V, I _F =20mA)	1.60	1.80	2.20	1.80	2.15	2.60
Reverse Current per dot, I_R (μA , V_R =5 V)			50			50
Luminous Intensity Matching Ratio, I _{V-m} (I _F =20mA)			2:1			2:1

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