



**EXCEED PERSEVERANCE ELECTRONIC INDUSTRY CO., LTD.**

**深圳市超毅光电子有限公司**

**2.3"8×8 Dot Matrix Display.**

**Part Number:**

RL-M2388GBW

RL- M2388YBW

RL- M2388OAW

RL- M2388SRW

RL- M2388RBW

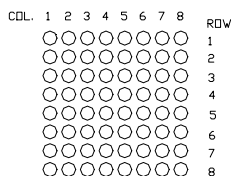
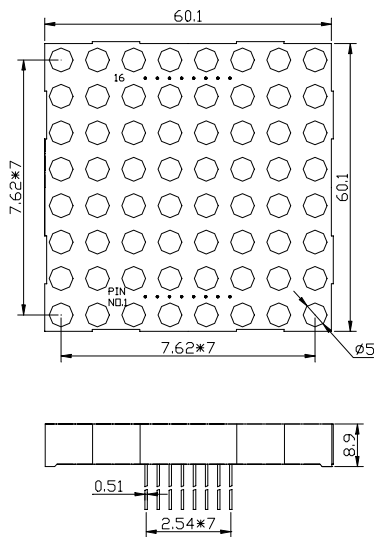
**Features**

- 1.LOW POWER CONSUMPTION.
- 2.RELIABLE AND RUGGED.
- 3.EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- 4.SUITABLE FOR LEVEL INDICATOR.
- 5.I.C COMPATIBLE.
- 6.LONG LIFE-SOLIDSTATE RELIABILTY.

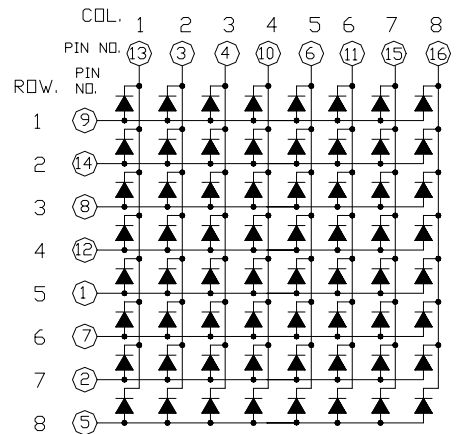
**Notes:**

- 1.All dimensions are in millimeters (inches)
- 2.Tolerance is  $\pm 0.25(0.01'' )$  unless otherwise niter
- 3.Lead spacing is measured where the lead emerge package
- 4.Speciflcations are subject to change without notice

**Package Dimensions & Internal Circuit Diagram.**



RL-M2388



**Selection Guide**

Part NO.	Chip			Vf (V)			Face Color	C.C Or CA
	Material	Emitted Color	$\Delta p$ (nm)	Typ.	Max	At IF=mA		
RL- M2388GBW	GaP	Yellow Green	570	4500	6750	20	Black	C.C.
RL- M2388YBW	GaAsP/GaP	Yellow	585	2160	3241	20	Black	C.C
RL- M2388OAW	GaAsP/GaP	Orange Red	630	2740	4110	20	Gray	C.A.
RL- M2388SRW	GaAlAs	Super Red	660	6190	9280	20	Red	C.A.
RL- M2388RBW	GaP/GaP	Bight Red	700	450	680	20	Black	C.A.

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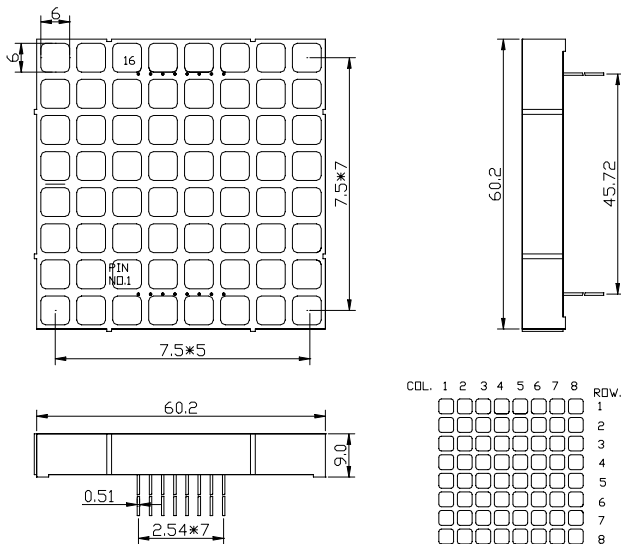
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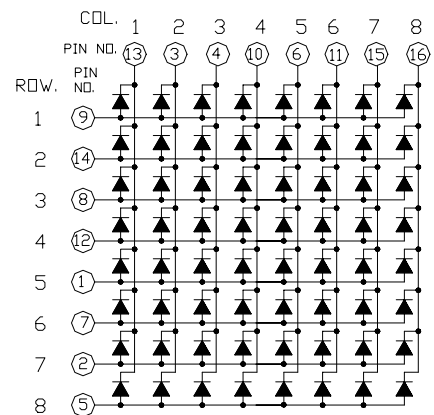
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**Electrical/Optical characteristics at TA=25°C.**

Symbol	Parameter	Device	Type.	Max.	Units	Test Conditions
λ peak	Peak Wavelength	Yellow Green	570		nm	IF-20mA
		Yellow	585			
		Orange Red	630			
		Super Red	660			
		Bight Red	700			
λ D	Dominate Wavelength	Yellow Green	560		nm	IF-20mA
		Yellow	580			
		Orange Red	610			
		Super Red	640			
		Bight Red	690			
Δ λ 1/2	Spectral Line Halfwit	Yellow Green	30		nm	IF-20mA
		Yellow	35			
		Orange Red	45			
		Super Red	20			
		Bight Red	45			
C	Capacitance	Yellow Green	15		pF	VF=0V; f=1MHZ
		Yellow	20			
		Orange Red	15			
		Super Red	45			
		Bight Red	40			
VF	Forward Voltage	Yellow Green	2.1	2.8	V	IF-20mA
		Yellow	2.0	2.8		
		Orange Red	2.0	2.8		
		Super Red	1.7	2.8		
		Bight Red	2.1	2.8		
IR	Reverse Current	All		10	uA	VR=5V

**Absolute Maximum Ratings at TA=25°C.**

Parameter	Yellow Green	Yellow	Orange Red	Super Red	Bright Red	Units
Power dissipation	100	85	100	110	45	mW
DC Forward Current	25	25	25	25	25	mA
Peak Forward Current	160	160	160	200	50	mA
Reverse Voltage	5	5	5	5	5	V

**NOTES:**

- 1.Operating temperature: 40°C. TO 80°C.
- 2.Lead soldering: 260°C for 5 seconds.