



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

**深圳市超毅光电子有限公司**

**1.5"8x8 Dot Matrix Display.**

**Part Number:**

RL-M1588GBW  
RL- M1588SRW

RL- M1588YBW  
RL- M1588RBW

RL- M1588OAW

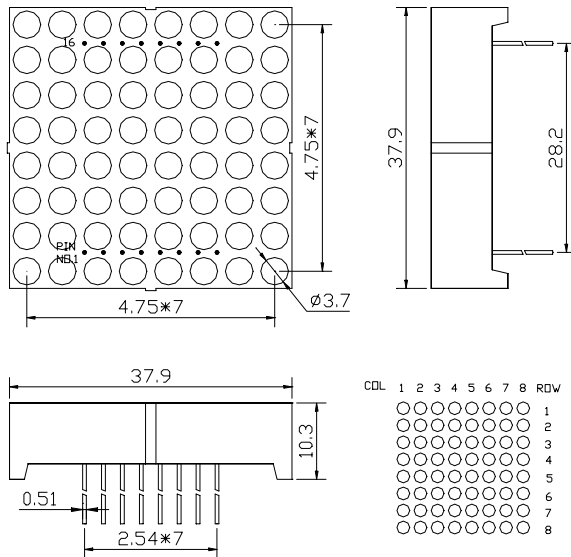
**Features**

- 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.

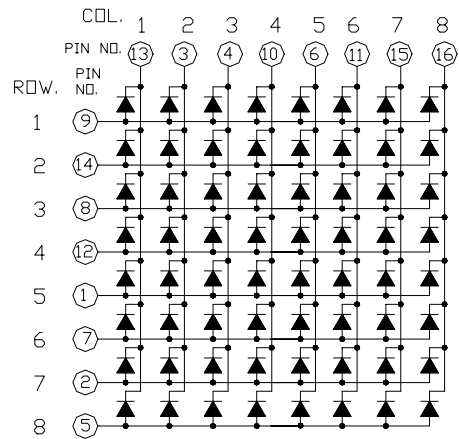
**Notes:**

- 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-M1588



**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- M1588GBW	GaP	Yellow Green	570	3400	5100	20	Black	C.C.
RL- M1588YBW	GaAsP/GaP	Yellow	585	1630	2450	20	Black	C.C
RL- M1588OAW	GaAsP/GaP	Orange Red	630	2070	3110	20	Gray	C.A.
RL- M1588SRW	GaAlAs	Super Red	660	4670	7010	20	Red	C.A.
RL- M1588RBW	GaP/GaP	Bight Red	700	340	510	20	Black	C.A.

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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			
		Bright Red	700			
λ D	Dominate Wavelength	Yellow Green	560		nm	IF-20mA
		Yellow	580			
		Orange Red	610			
		Super Red	640			
		Bright Red	690			
Δ λ 1/2	Spectral Line Halfwit	Yellow Green	30		nm	IF-20mA
		Yellow	35			
		Orange Red	45			
		Super Red	20			
		Bright Red	45			
C	Capacitance	Yellow Green	15		pF	VF=0V; f=1MHZ
		Yellow	20			
		Orange Red	15			
		Super Red	45			
		Bright 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		
		Bright 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.