



## **Features:**

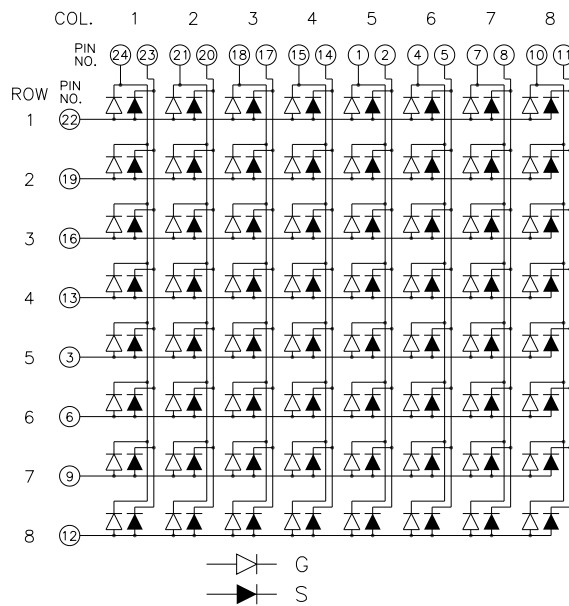
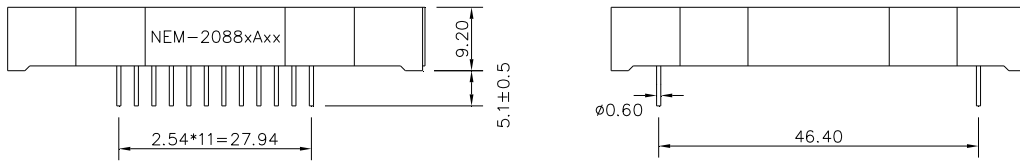
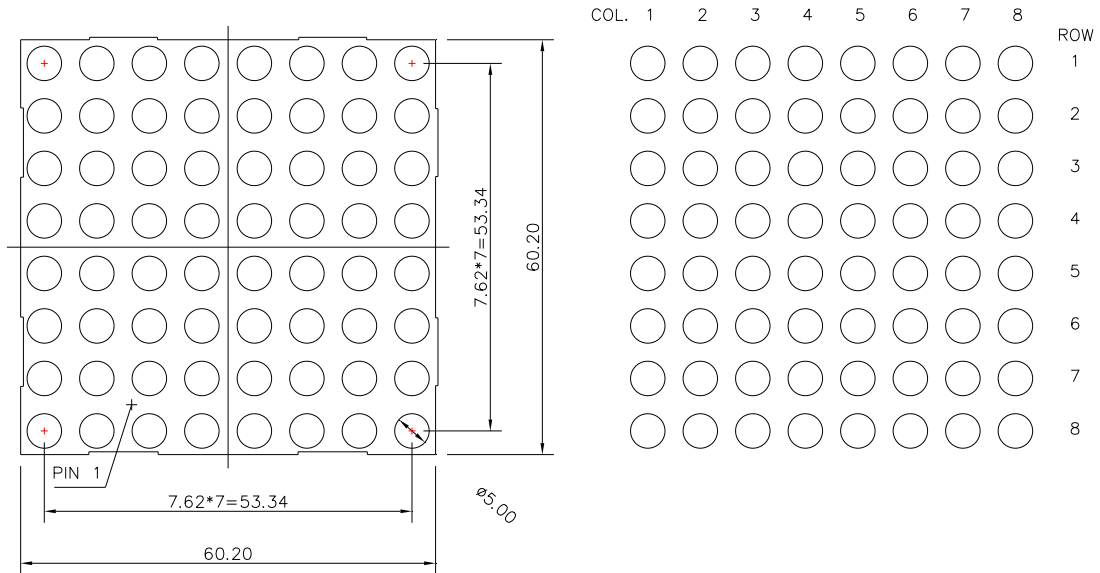
- Large emitting dot 5.0mm diameter.
- Low current operation.
- Easy mounting on P.C. boards or sockets.
- Wide viewing angle.
- Solid state reliability.
- Mechanically rugged.
- Pb free.
- RoHS compliant.

## **Descriptions:**

- The NEM-2088xAxx series is a large emitting area (5.0mm diameter) LED sources configured in a 64 dot 8\*8 matrix array.
- These devices are made with gray surface and white segments.
- The Super Bright Red source color devices are made with AlGaInP Red Light Emitting Diode  
The Ultra Yellow Green source color devices are made with AlGaInP Yellow Green Light Emitting Diode



**Package Dimensions & Internal Circuit Diagram**



**Notes:**

1. All dimensions are in millimeters(inches),Tolerance is  $\pm 0.25$  (0.01") unless otherwise noted.
2. Specifications are subject to change without notice.

**Absolute maximum ratings (Ta = 25°C)**

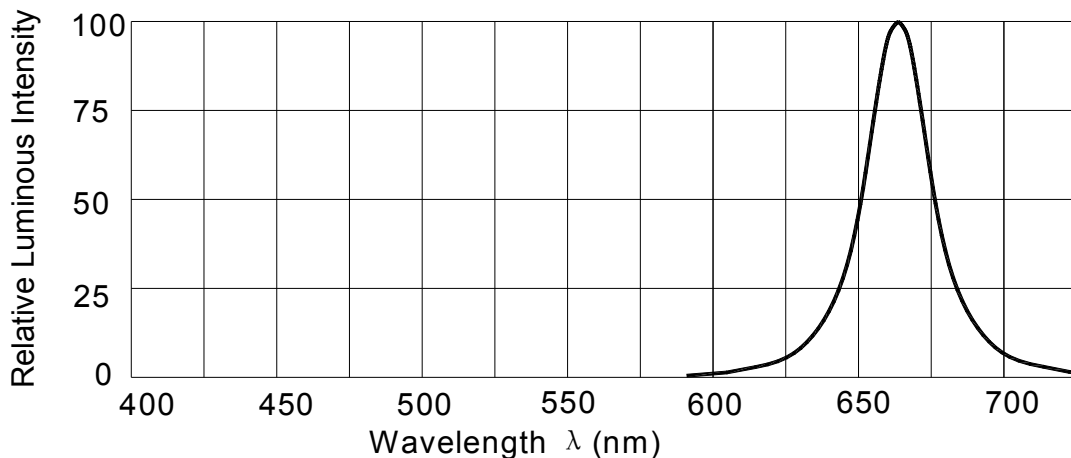
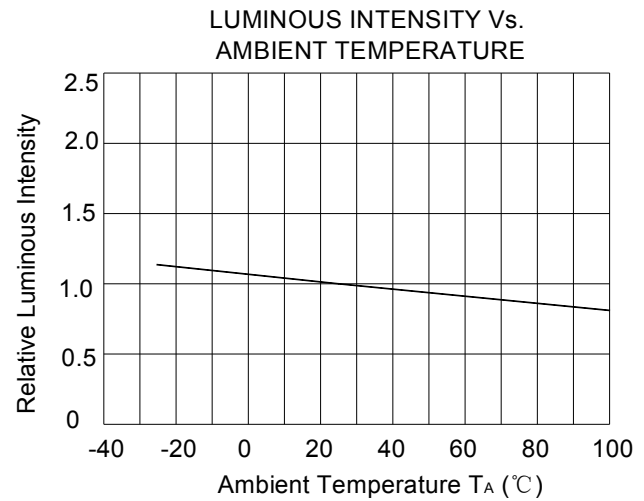
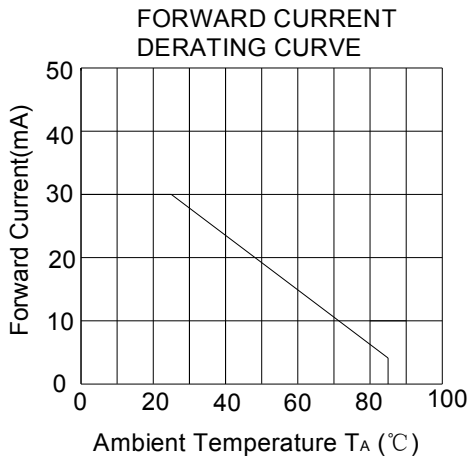
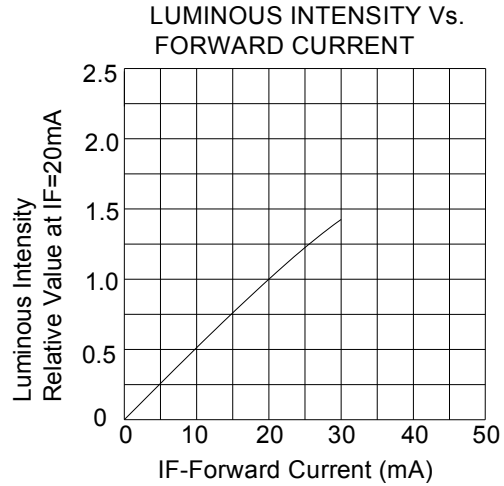
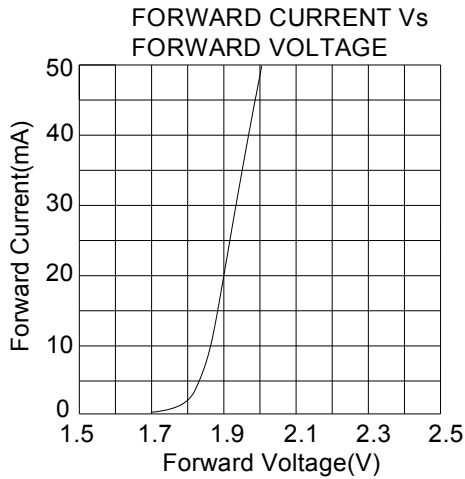
Parameter	Symbol		Value		Unit
			Min.	Max.	
Reverse Voltage	VR	----	----	5	V
Forward Current	IF	----	----	25	mA
Power Dissipation	Pd	----	----	60	mW
Pulse Current	Ipeak	Duty=0.1mS, 1kHz	----	80	mA
Operating Temperature	Topr	----	-25	+85	°C
Storage Temperature	Tstr	----	-30	+85	°C
Solder Temperature	Tsol	1/16inch below Seating plane	260/3		°C/s

**Electrical and optical characteristics (Ta = 25°C)**

Parameter	Symbol	Color	Test Condition	Values			Unit
				Min.	Typ.	Max.	
Forward Voltage	VF	SR	IF=20mA	----	2.0	2.4	V
		UG		----	2.3	2.6	
Reverse Current	IR		VR=5V	----	----	30	μA
Dominate Wavelength	λd	SR	IF=20mA	----	630	----	nm
		UG		----	568	----	
Peak Wavelength	λp	SR	IF=20mA	----	635	----	nm
		UG		----	570	----	
Spectral Line half-width	Δλ	SR	IF=20mA	----	20	----	nm
		UG		----	30	----	
Luminous Intensity	Iv	SR	IF=10mA	----	50	----	mcd
		UG		----	40	----	



Typical electrical/optical characteristic curves:





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