

# **KWL-1111UX SERIES**

Light Bar Display

#### **DESCRIPTION:**

The KWL-1111Ux series is 11.00mm x 11.00mm square type light bar display designed for a variety of applications where a large source of light is required, such as panel indicators, backlight legends and light arrays.

## ABSOLUTE MAXIMUM RATINGS: (Ta=25°C)

Parameter	Max					
Reverse Voltage per segment	5 V					
Reverse Current per segment (Vr = 5V)	100μΑ					
Derating Linear from 25°C per segment	0.4mA/ °C					
Operating Temperature Range	-40°C To 85°C					
Storage Temperature Range	-40°C To 100°C					
Soldering Temperature 1.6mm(1/16") from body for 5 sec. at 260°C						

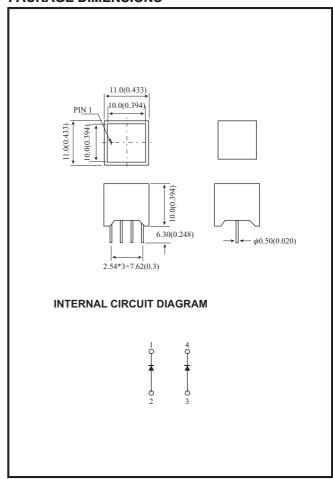
NOTES: 1. All dimensions are in millimeters (inches).

- 2. Tolerance is ±0.25mm(0.010) unless otherwise specified.
- 3. Specifications are subject to change without notice.
- 4. NP: No Pin.
- 5. NC: No Connect.

#### **TESTING CONDITION FOR EACH PARAMETER:**

Parameter	Symbol	Unit	Test Condition			
Forward Voltage	Vf	V	If=20mA			
Peak Emission Wave Length	λρ	nm	If=20mA			
Spectral Line Half-Width	Δλ	nm	If=20mA			
Reverse Current	lr	μΑ	Vr=5V			
Average Luminous Intensity	lv	μ cd	If=10mA			

#### **PACKAGE DIMENSIONS**



### PART NO. SELECTION AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

	Cł	Chip		Wave	Absolute Maximum Ratings				Electro-optical Characteristic						
Part No.	Raw Emitted Material Color	or C.A	CA	Δλ	Pd If		If (Peak)	Vf (V) Per Chip			If (Rec)	lv (mcd)			
			λρ (nm)	(nm)   (m)	(mW)	(mA)	(mA)	Min.	Тур.	Max.	mA	Min.	Тур.		
KWL-1111U3	GaAsP/GaP	Hi-Eff. Red		635	45	100	50	100	1.7	1.9	2.6	10-20	2.5	6.0	
KWL-1111US	GaAlAs	Super Red	No	660	20	100	50	100	1.5	1.9	2.6	10-20	6.0	12.0	
KWL-1111U2	GaP	Green	Common	565	30	100	50	100	1.7	2.2	2.6	10-20	2.0	5.0	
KWL-1111UG	GaP	Super Green	Polar	570	30	100	50	100	1.7	2.2	2.6	10-20	4.0	10.0	
KWL-1111U6	GaAsP/GaP	Yellow		585	30	100	50	100	1.7	1.9	2.6	10-20	2.0	5.0	

REMARKS: 1. The average luminous intensity is obtained by summing the luminous intensity of each segment and dividing by the total number of segments.

- 2. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (International Commission on Illumination) eye-response curve.
- 3. Clean only by pure water, isopropanol, ethanol, Freon TF (or equivalent).