

# KW1-391CURB

## DATA SHEET

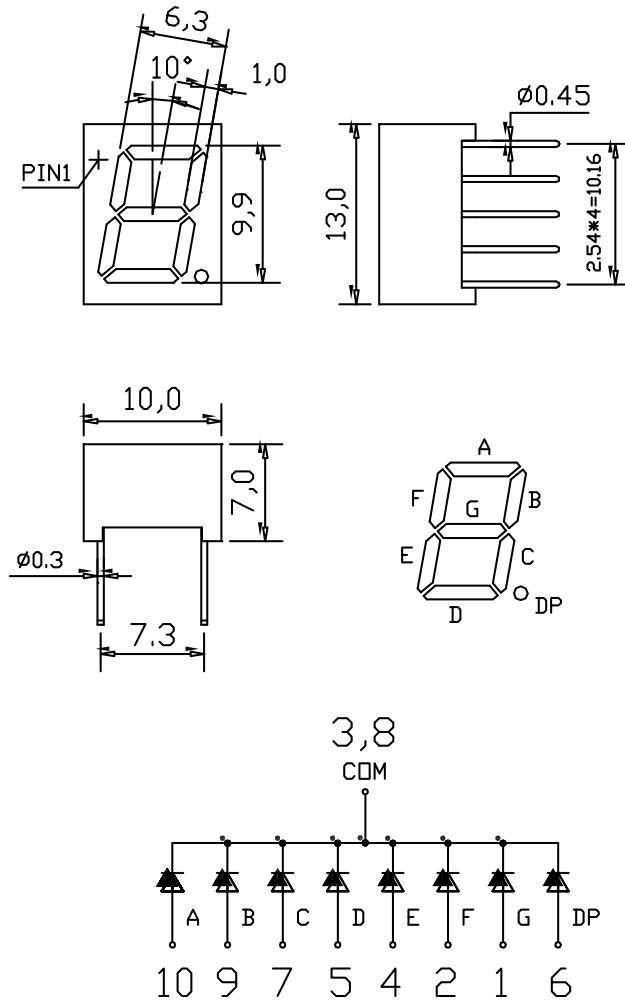
QC:

ENG:

Prepared By:

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# Package Dimensions:



Part NO.	Chip Material	Source Color	Face	Segment
KW1-391CURB	AlGaInP	Super Bright Red	Black	White

### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25$  mm (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

### Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation (per segment)	50	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	25	mA
Continuous Forward Current	20	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range	-40°C to +80°C	
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds	

### Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	15	20	35	mcd	I <sub>f</sub> =20mA (Note 1)
Peak Emission Wavelength	λ <sub>p</sub>	630	635	640	nm	I <sub>f</sub> =20mA
Spectral Line Half-Width	Δλ	15	20	25	nm	I <sub>f</sub> =20mA
Forward Voltage	V <sub>f</sub>	1.8	2.0	2.4	V	I <sub>f</sub> =20mA
Reverse Current	I <sub>R</sub>	---	---	10	μA	V <sub>R</sub> =5V

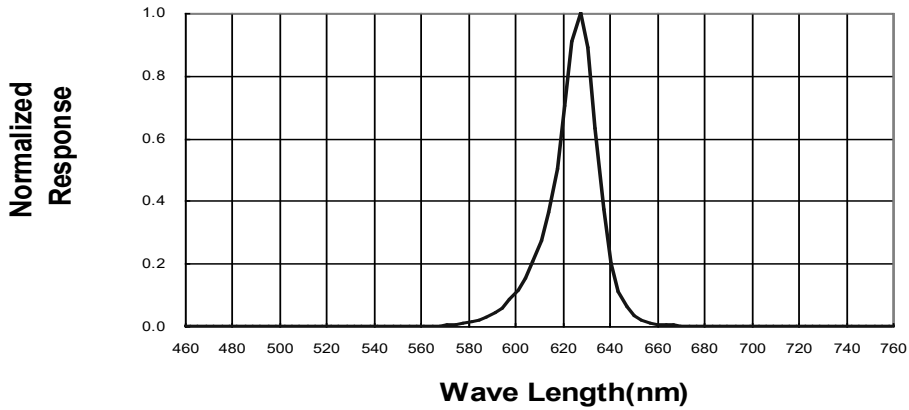
#### Notes:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

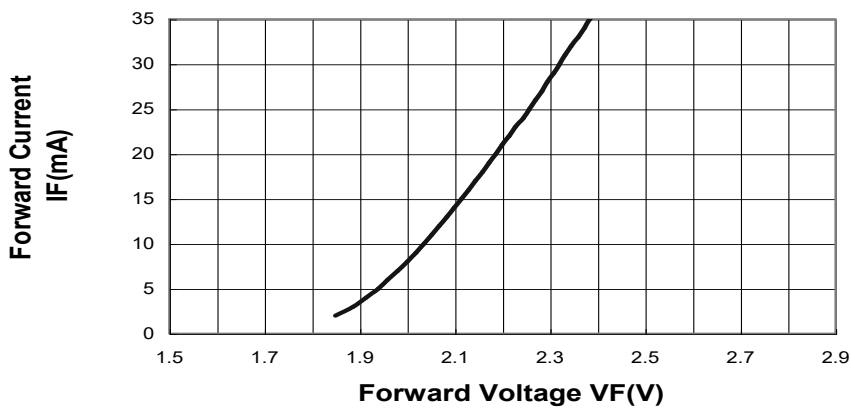
# Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

**Spectral Radiance (Peak @ 635 nm)**



**Forward Current vs Forward Voltage**



**Relative Luminous Intensity vs Forward Current**

