

KW1-391CSB

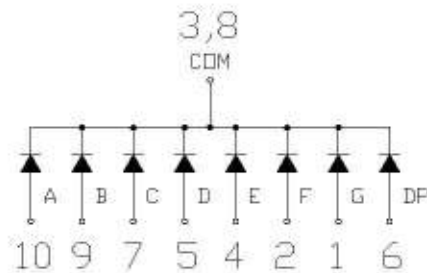
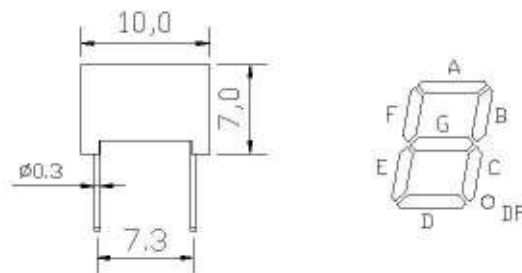
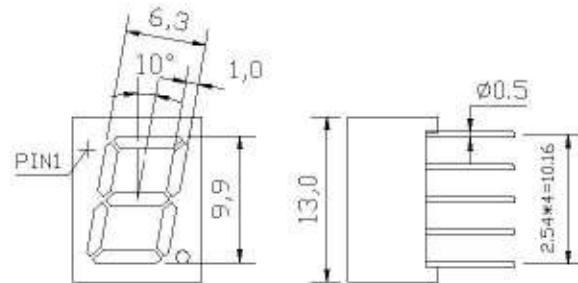
DATA SHEET

QC:

ENG:

Prepared By:

## Package Dimensions:



Part NO.	Chip Material	Source Color
KW1-391CSB	AlGaAs	Super Red

### 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	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	40	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	$I_v$	7	15	32	mcad	$I_f=20\text{mA}$ (Note 1)
Peak Emission Wavelength	$\lambda_p$	655	660	665	nm	$I_f=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$	19	24	29	nm	$I_f=20\text{mA}$
Forward Voltage	$V_f$	1.6	1.85	2.4	V	$I_f=20\text{mA}$
Reverse Current	$I_R$	---	---	100	$\mu\text{A}$	$V_R=5\text{V}$

**Notes:**

- 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)

