

# KW1-521A2B

## DATA SHEET

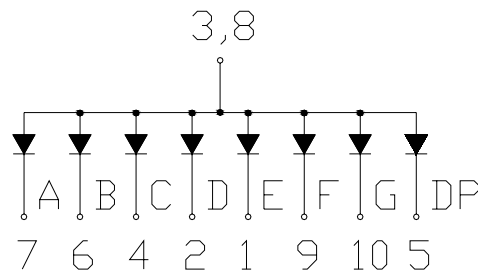
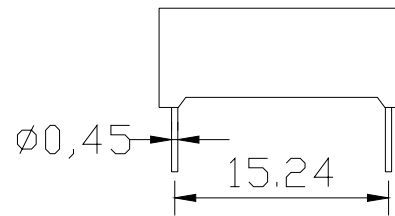
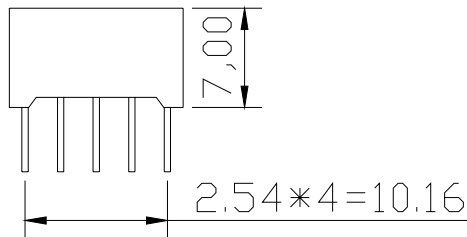
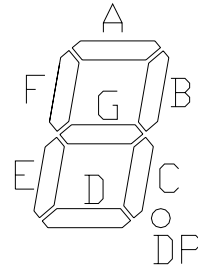
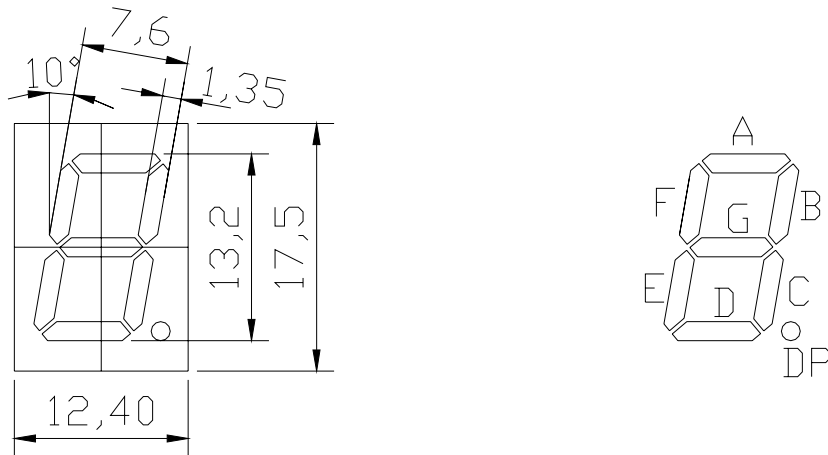
QC:

ENG:

Prepared By:

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## Package Dimensions:



Part NO.	Chip Material	Source Color
KW1-521A2B	GaP	Green

### 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

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	50	mA
Derating Linear From 50	0.4	mA/
Reverse Voltage	5	V
Operating Temperature Range	-40 to +80	
Storage Temperature Range	-40 to +80	
Lead Soldering Temperature [1.6mm(.063") From Body]	260 for 5 Seconds	

## Electrical Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_v$	7	15	25	mcd	$I_f=20\text{mA}$ (Note 1)
Peak Emission Wavelength	$\rho$	563	568	573	nm	$I_f=20\text{mA}$
Spectral Line Half-Width		25	30	35	nm	$I_f=20\text{mA}$
Forward Voltage	$V_f$	1.7	2.2	2.6	V	$I_f=20\text{mA}$
Reverse Current	$I_R$	---	--	100	$\mu\text{A}$	$V_R=5\text{V}$

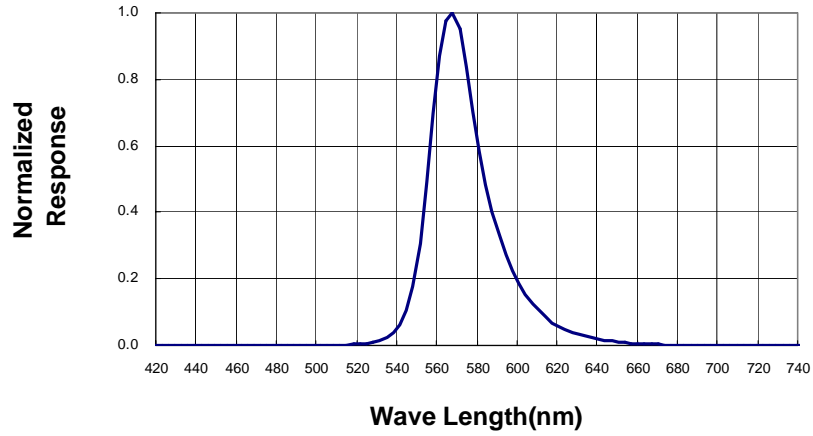
### Notes:

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

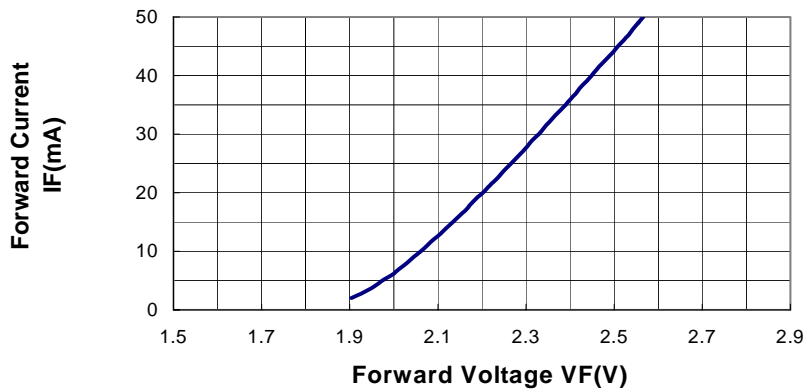
# Typical Electrical / Optical Characteristics Curves

(25 Ambient Temperature Unless Otherwise Noted)

### Spectral Radiance (Peak @ 568nm)



### Forward Current vs Forward Voltage



### Relative Luminous Intensity vs Forward Current

