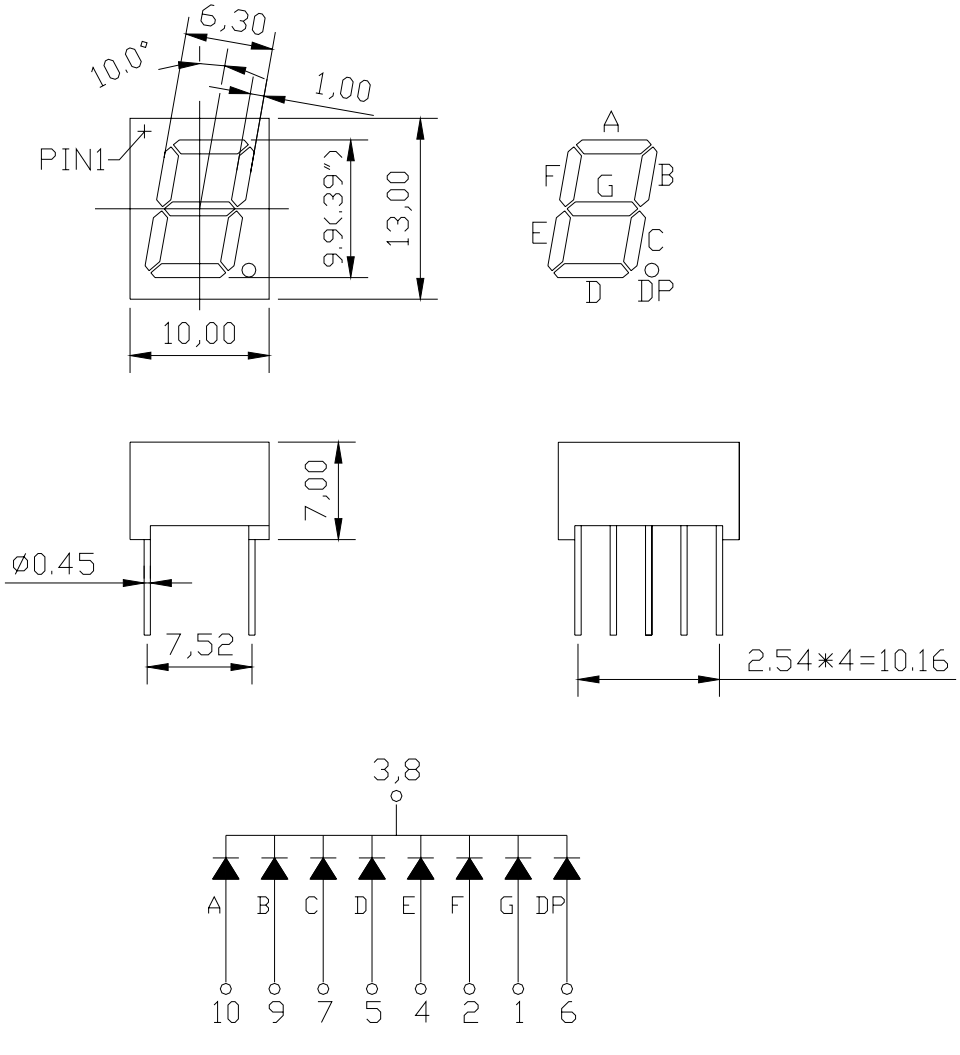
KW1-391CBB

DATA SHEET

QC: ENG: Prepared By:

Package Dimension:



Part NO.	Chip Material	Source Color
KW1-391CBB	GaInN	Blue

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(.010")mm 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	35	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℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	15	30	45	mcd	I_F=20mA (Note 1)
Peak Emission Wavelength	λ p	460	468	472	nm	I_F=20mA
Spectral Line Half-Width	△λ	35	40	45	nm	I_F=20mA
Forward Voltage	V_F	3.0	3.5	4.0	V	I_F=20mA
Reverse Current	I_R	---	---	100	μA	V_R=5V

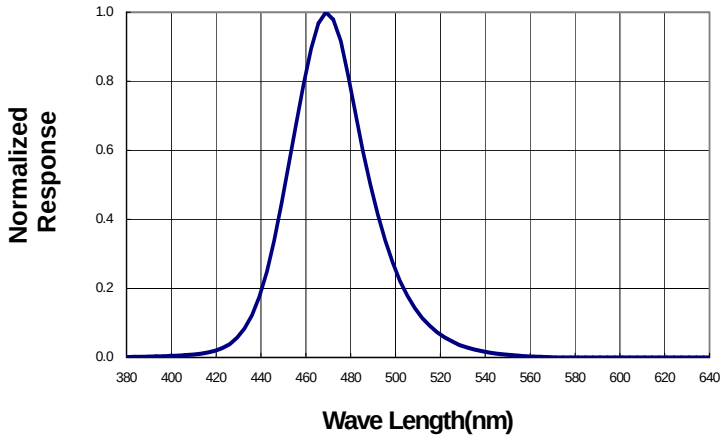
Note:

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

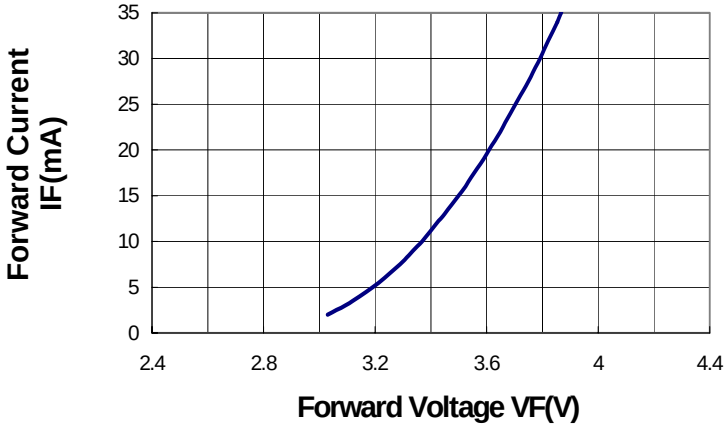
Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

Spectral Radiance (Peak @ 468nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current