



DATA SHEET

Model No. : Flat Top Piranha LED

Description:

- UFO Shape
- Super High Brightness
- High Reliability
- Fade Resistant



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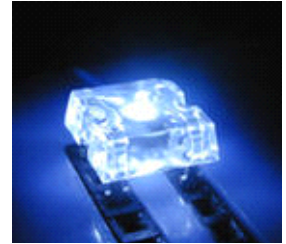
Web: <http://www.qdhehui.com/>



Part No: Flat Top Piranha LED

Features:

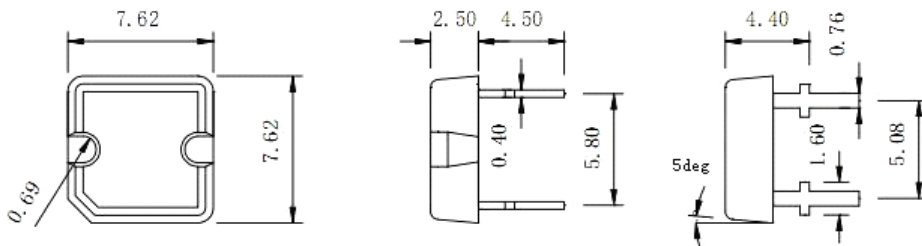
- ※Super High Brightness
- ※High Reliability
- ※Fade Resistant



Applications

1	Backlight Module
2	Point Light
3	Automotive Lighting Application
4	Automotive Decorate Application

Dimensions



Unit: mm
Tolerance are ± 0.25 ,
unless note otherwise

Maximum Ratings (T Ambient=25°C)

Parameter	Symbol	Rating	Unit
Operating Temperature	T _{opr}	-30 ~ +100	°C
Storage Temperature	T _{stg}	-40 ~ +120	°C
DC Forward Current	I _F	20	mA
Peak pulse current;(tp≤100μs,Duty cycle=0.25)	I _{pulse}	100	mA
Reverse Voltage	V _R	5	V
Manual Soldering Time at 260°C	T _{sol}	5	second

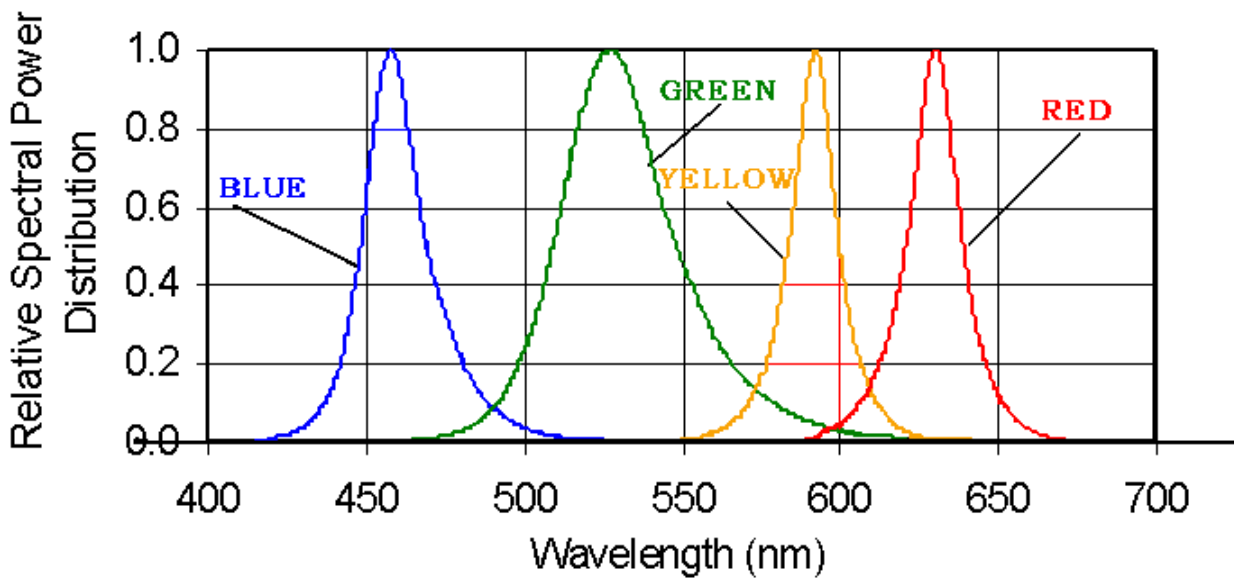


Electrical Optical Characteristics (T_{Ambient}=25°C, I_F=20mA)

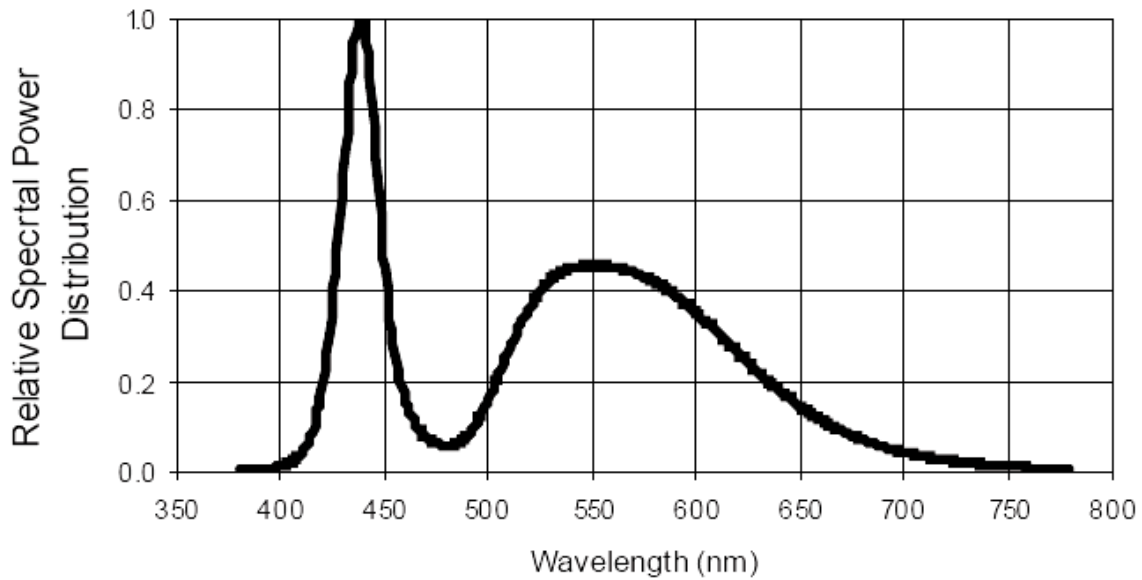
Part No.	Material	Emitting Color	Forward Voltage (V)		Luminous Intensity (mcd)		Dominant Wavelength (nm)		Viewing Angle (2θ1/2)
			Min.	Max.	Min.	Max.	Min.	Max.	
HH-PRFN1120F	AlGaInP	Red	1.8	2.4	200	-	620	635	120°
HH-PGFN1120F	InGaN	Green	3.0	3.5	800	-	515	530	120°
HH-PBFN1120F	InGaN	Blue	3.0	3.5	350	-	460	470	120°
HH-PYFN1120F	AlGaInP	Yellow	1.8	2.4	200	-	585	595	120°
HH-PWFN1120F	InGaN	White	3.0	3.5	800	-	8000K	-	120°

Note: measurement tolerance : ±10%

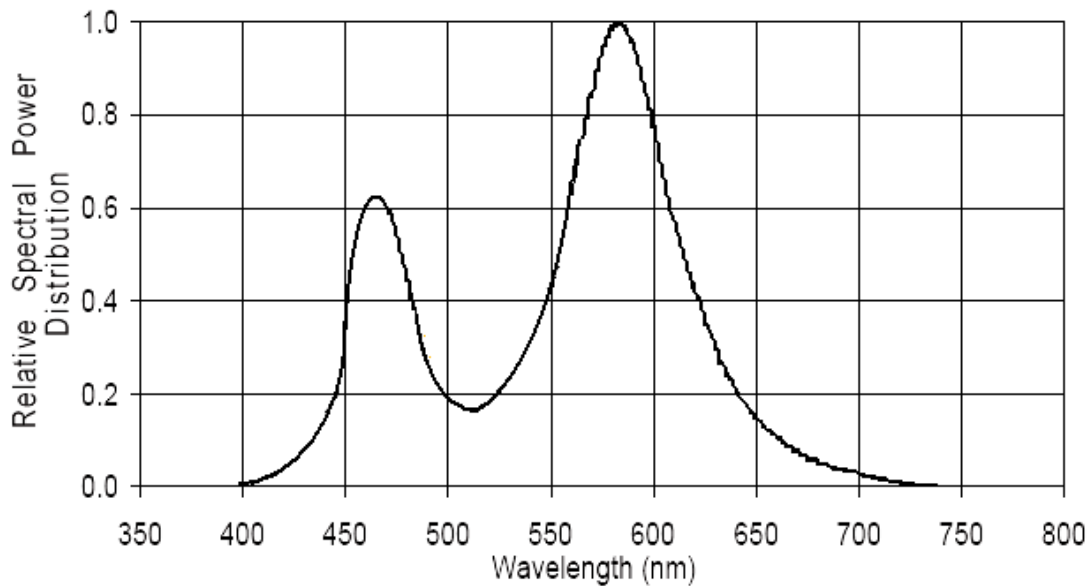
Typical Electro-Optical Characteristics Curves



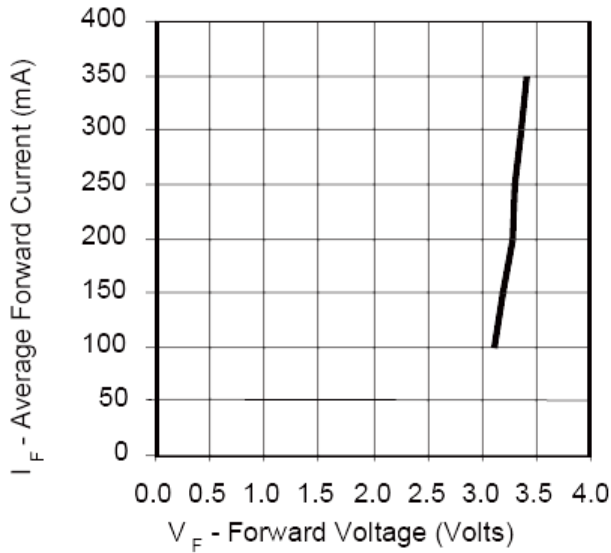
Relative Intensity vs. Wavelength



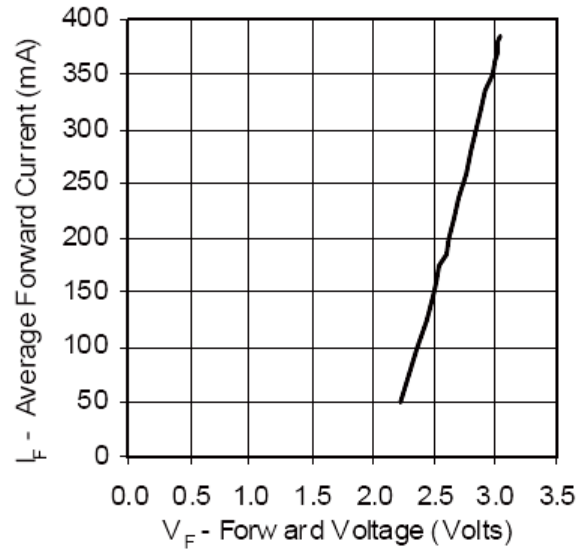
White Color Spectrum



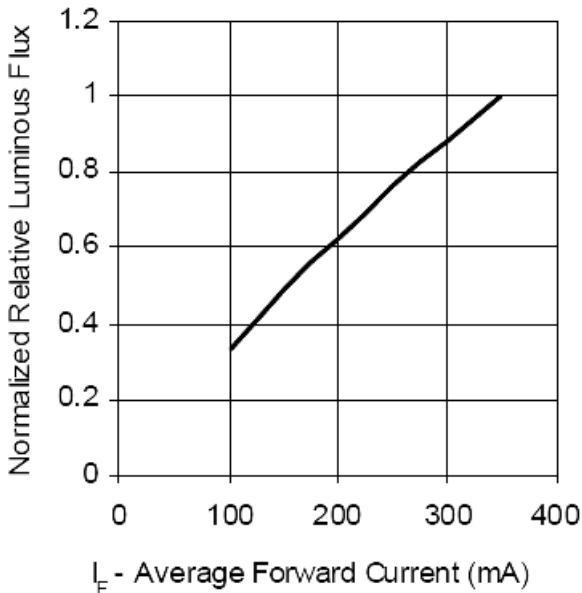
Warm White Color Spectrum



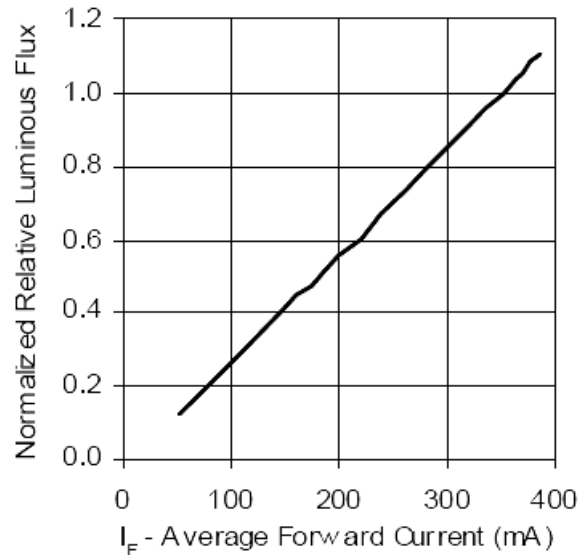
Forward Current vs. Forward Voltage for White, Warm White, Green, and Blue



Forward Current vs. Forward Voltage for Red, Yellow



Relative Luminous Flux vs Forward Current for White, Warm White, Green, and Blue at $T_J = 25^\circ\text{C}$ maintained



Relative Luminous Flux vs. Forward Current for Red, and Yellow at $T_J = 25^\circ\text{C}$ maintained