



DATA SHEET

Model No. : 5MM Piranha LED

Description:

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



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Part No: 5MM Piranha LED

Features:

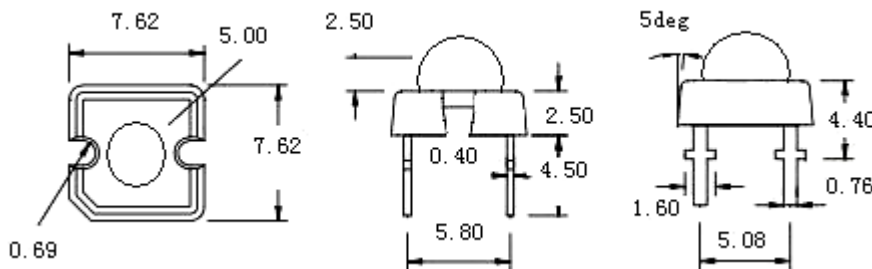
- ※Super High Brightness
- ※High Reliability
- ※Fade Resistant



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

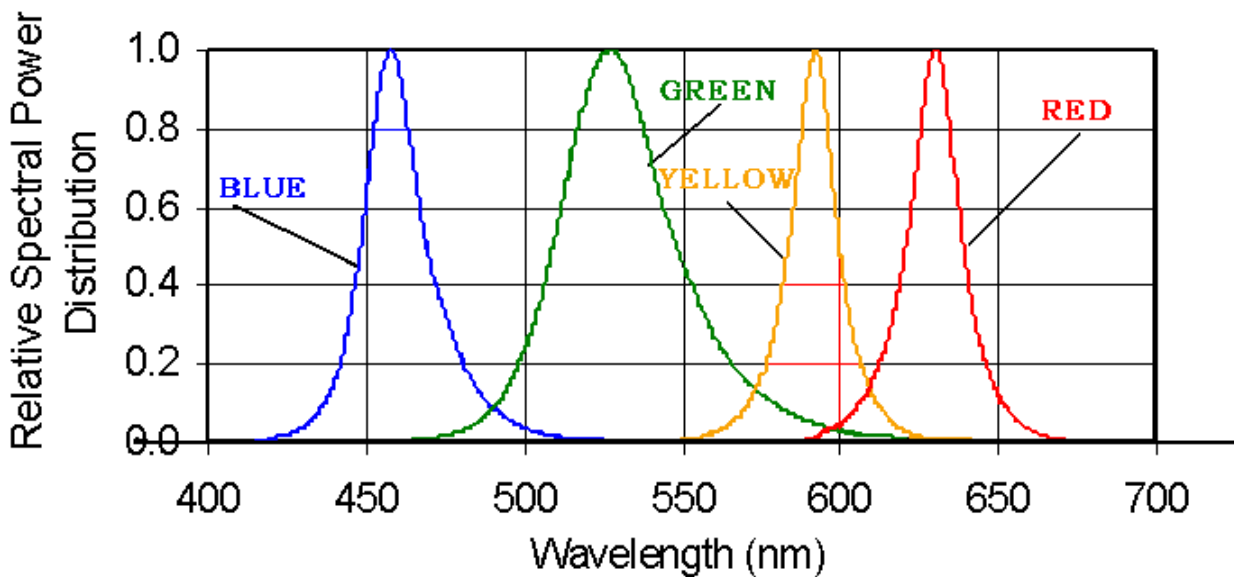


Electrical Optical Characteristics (T_{Ambient}=25°C, I_F=20mA)

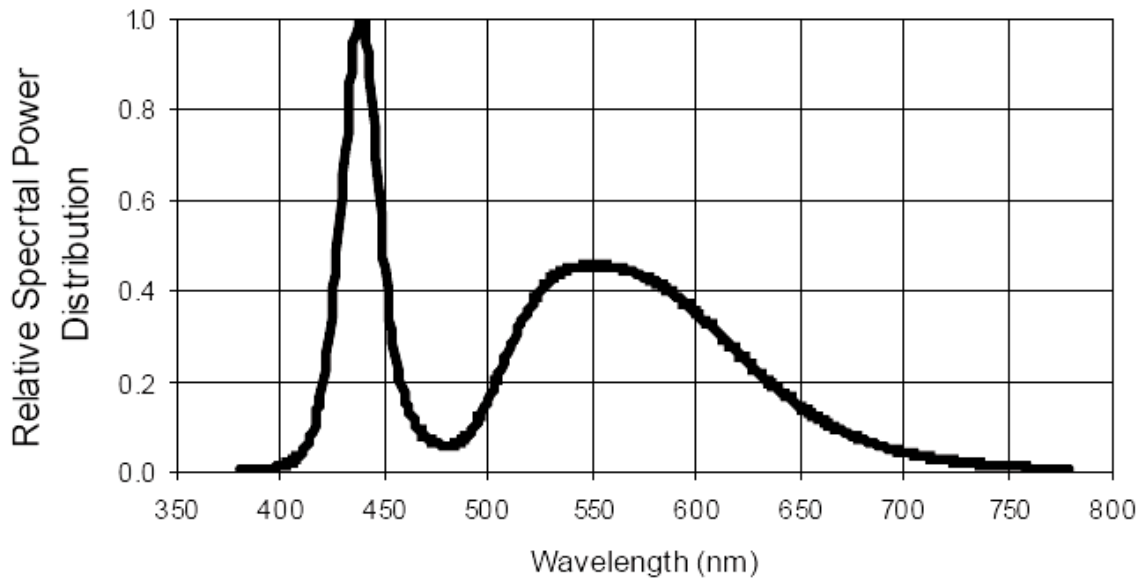
Part No.	Material	Emitting Color	Forward Voltage (V)		Luminous Intensity (mcd)		Dominant Wavelength (nm)		Viewing Angle (2θ1/2)
			Min.	Max.	Min.	Max.	Min.	Max.	
HH-PRR5190F	AlGaInP	Red	1.8	2.4	400	-	620	635	90°
HH-PGR5190F	InGaN	Green	3.0	3.5	2000	-	515	530	90°
HH-PBR5190F	InGaN	Blue	3.0	3.5	350	-	460	470	90°
HH-PYR5190F	AlGaInP	Yellow	1.8	2.4	400	-	585	595	90°
HH-PWR5190F	InGaN	White	3.0	3.5	1600	-	3200K	-	90°

Note: measurement tolerance : ±10%

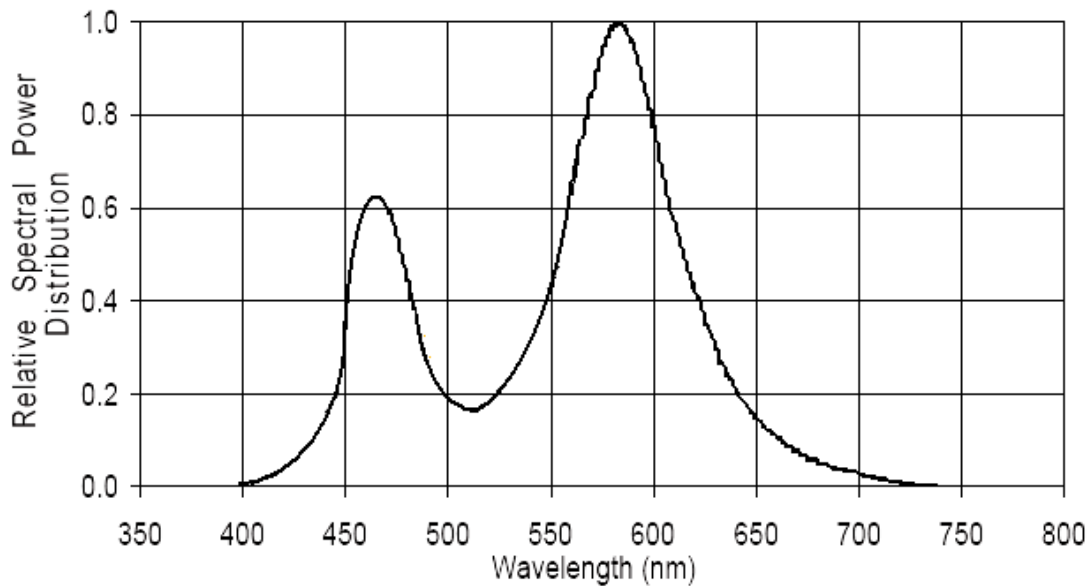
Typical Electro-Optical Characteristics Curves



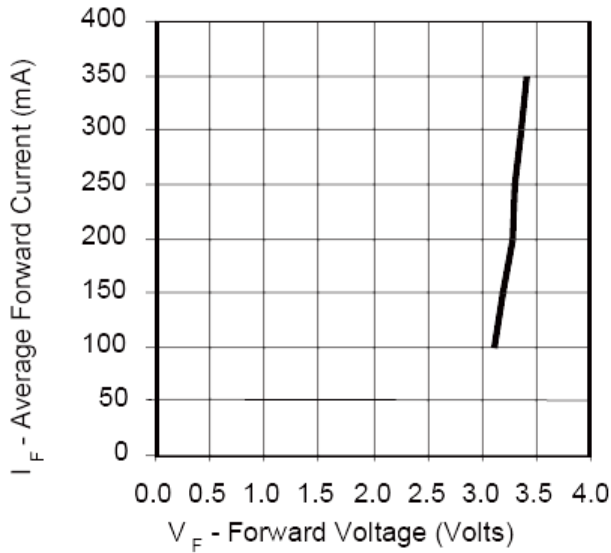
Relative Intensity vs. Wavelength



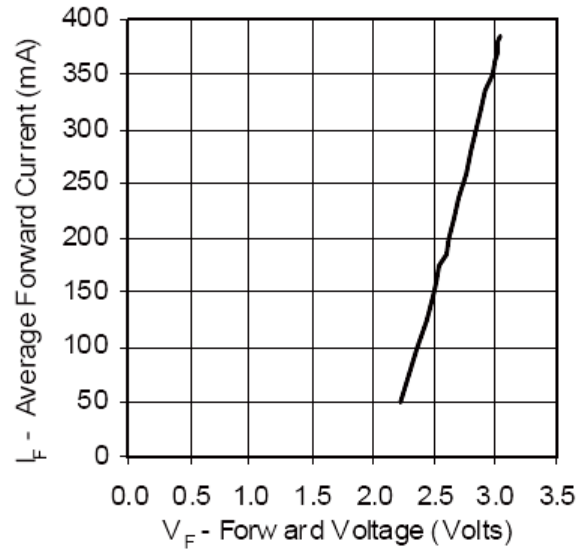
White Color Spectrum



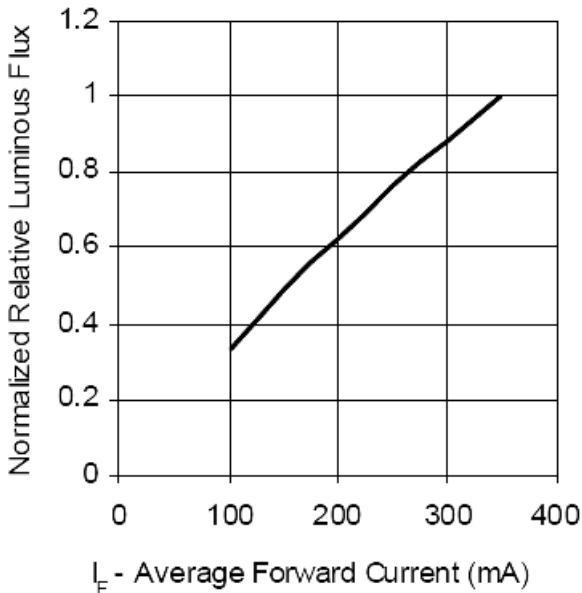
Warm White Color Spectrum



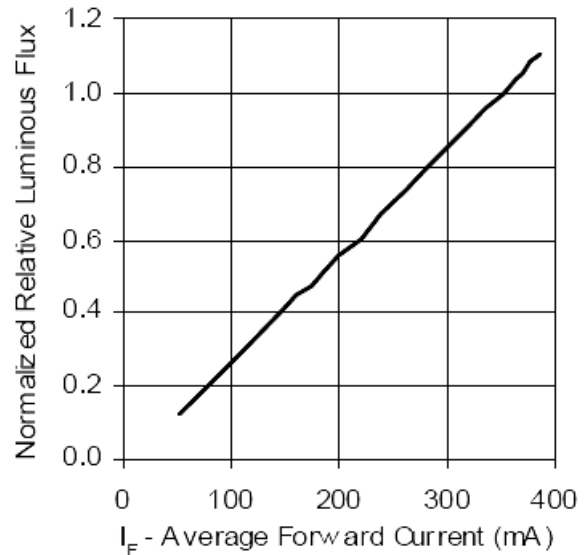
Forward Current vs. Forward Voltage for White, Warm White, Green, and Blue



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