DATA SHEET

Model No. ： 3MM Piranha LED

Description：

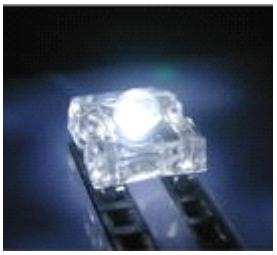
- UFO Shape
- Super High Brightness
- High Reliability
- Fade Resistant

RoHS

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

Add：No.5 Seoul Road, Qingdao Free Trade Zone, Shandong, China
Tel： +86-0532-86769291/86760027/86760028
Fax： +86-86760029
Web：http://www.qdhehui.com/

Part No：3MM Piranha LED



Features:

※Super High Brightness

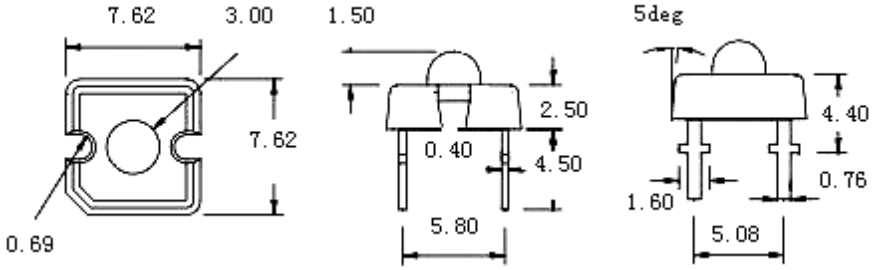
※High Reliability

※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=25ºC）

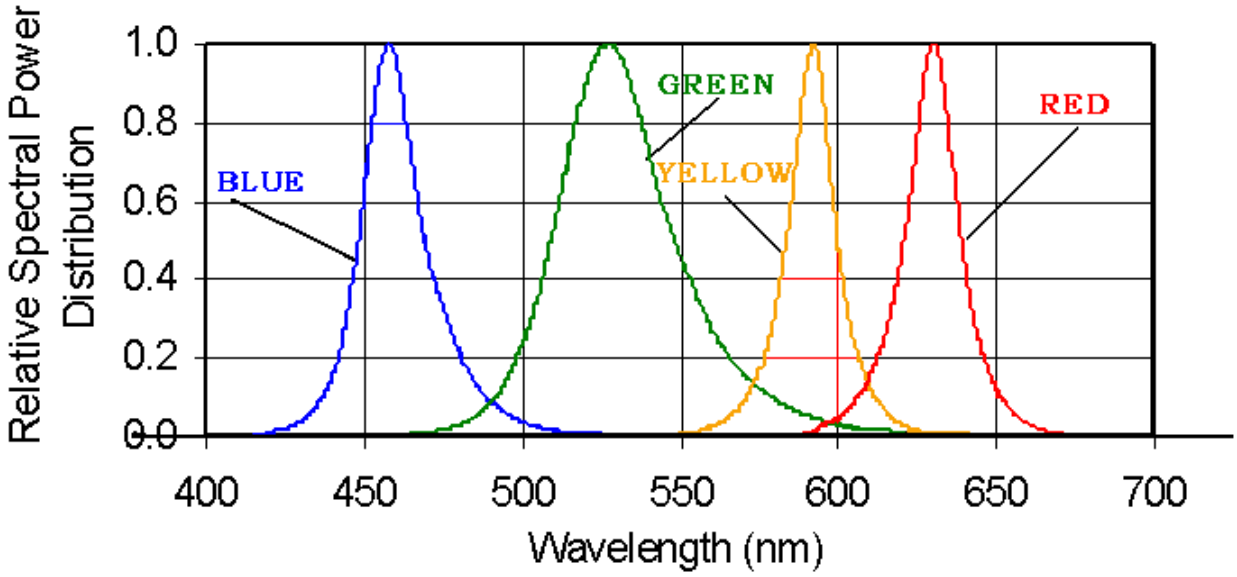
Parameter	Symbol	Rating	Unit
Operating Temperature	T_{opr}	-30 ~ +100	ºC
Storage Temperature	T_{stg}	-40 ~ +120	ºC
DC Forward Current	I_F	20	mA
Peak pulse current;(tp≤100μs,Duty cycle=0.25)	I_{pulse}	100	mA
Reverse Voltage	V_R	5	V
Manual Soldering Time at 260ºC	T_{sol}	5	second

Electrical Optical Characteristics （$T_{Ambient}$=25℃,IF=20mA）

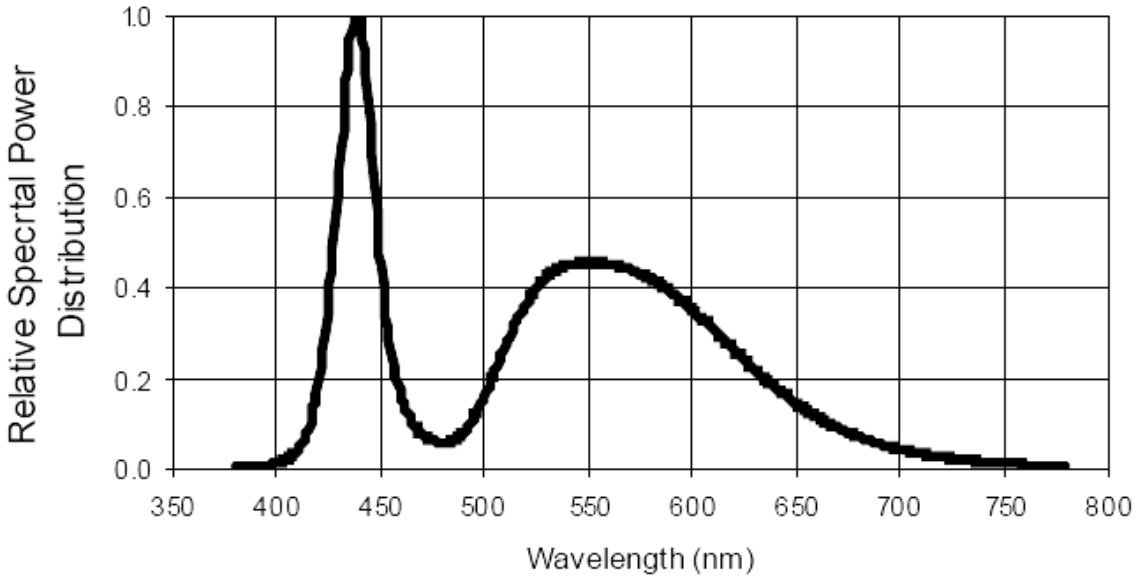
Part No.	Material	Emitting Color	Forward Voltage（V）		Luminous Intensity（mcd）		Dominant Wavelength（nm）		Viewing Angle（2Θ1/2）
			Min.	Max.	Min.	Max.	Min.	Max.	
HH-PRR31100F	AlGaInP	Red	1.8	2.4	400	–	620	635	100°
HH-PGR31100F	InGaN	Green	3.0	3.5	2000	–	515	530	100°
HH-PBR31100F	InGaN	Blue	3.0	3.5	350	–	460	470	100°
HH-PYR31100F	AlGaInP	Yellow	1.8	2.4	400	–	585	595	100°
HH-PWR31100F	InGaN	White	3.0	3.5	1600	–	3200K	–	100°

Note: measurement tolerance : ±10%

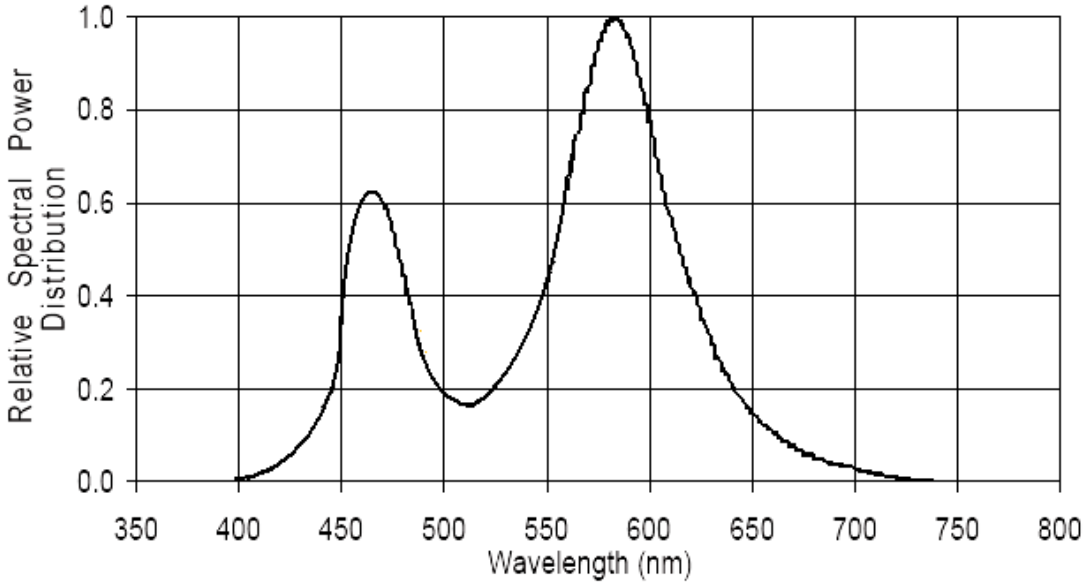
Typical Electro-Optical Characteristics Curves



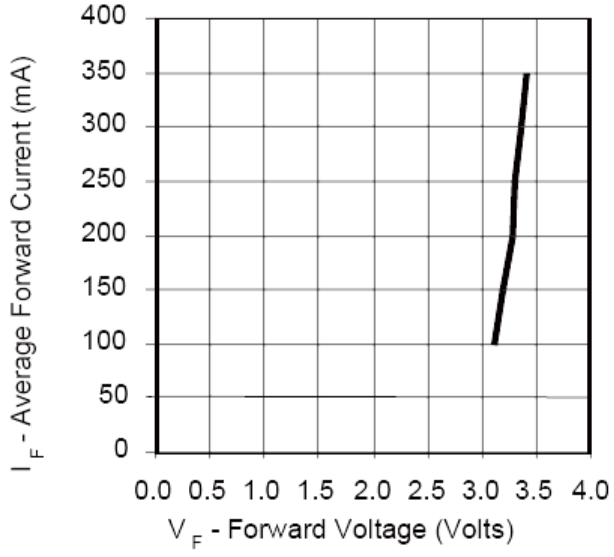
Relative Intensity vs. Wavelength



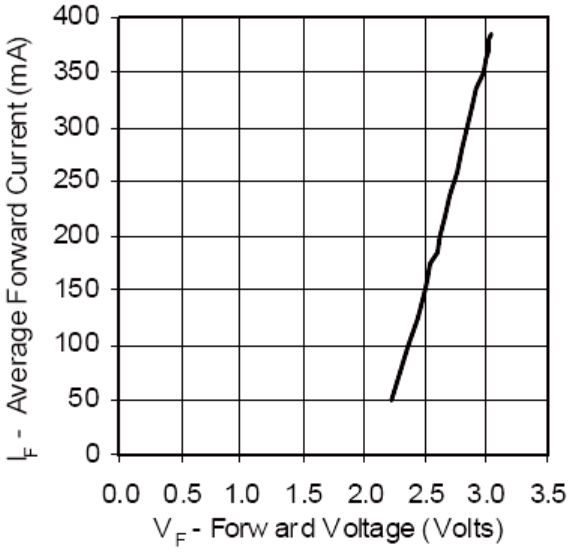
White Color Spectrum



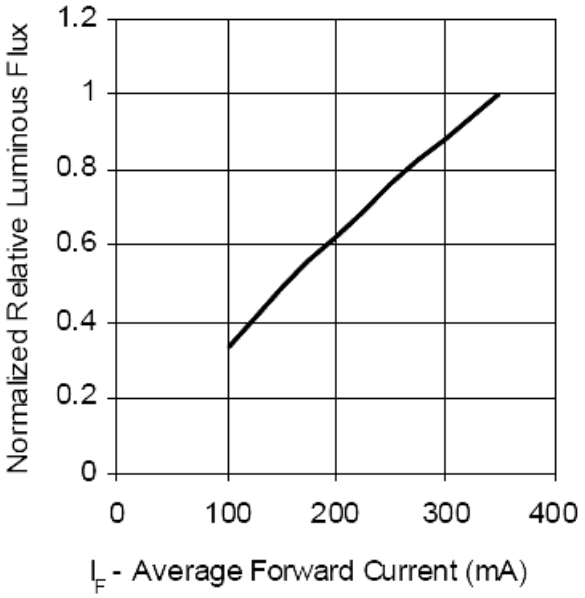
Warm White Color Spectrum



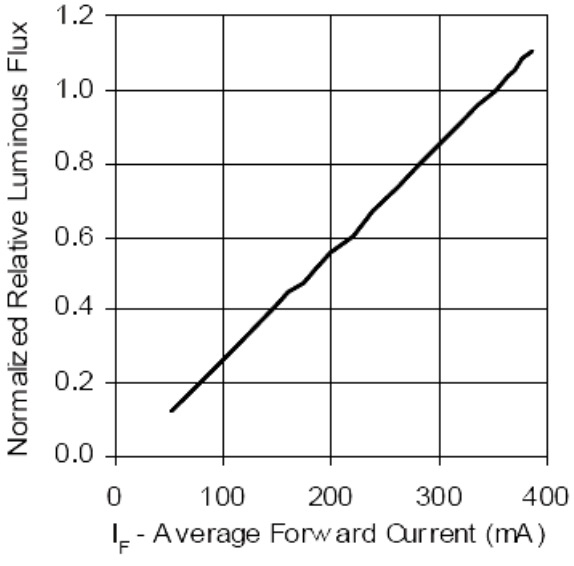
Forward Current vs. Forward Voltage for White, Warm White, Green, and Blue



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°C maintained



Relative Luminous Flux vs. Forward Current for Red, and Yellow at T_J=25°C maintained