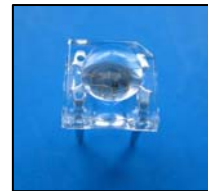




3RGB13HCA TECHNICAL DATA



Super Flux RGB LED

Emitting Color	Chip Material
RED	AlGaInP
GREEN	InGaN
BLUE	InGaN

Characteristics ($T_a=25^{\circ}\text{C}$, $I_R=I_G=I_B=20\text{mA}$)

Emitting Color	λ_p Wavelength (nm)	Lens Type	Forward Voltage V_f (V)	Luminous Flux(lm)	Luminous Intensity (mcd)	Viewing Angle (°)
RED	620 – 630	Water Clear	1.8 – 2.4	1.5 – 2.5	800 – 1000	95 ±5
GREEN	515 – 525		3.0 – 3.6	3.0 – 4.0	1500 – 2000	75 ±5
BLUE	460 – 470		2.8 – 3.4	1.0 – 1.5	650 - 850	65 ±5

Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	P_D	R: 48 G: 72 B: 68	mW
ESD (HBM)	ESD	R: 5000 G: 2000 B: 2000	V
Peak Forward Current (1/10 Duty Cycle, 0.1 mS Pulse Width)	I_{FP}	40	mA
Reverse Voltage	V_R	5	V
Reverse Current	I_R	≤ 5	μA
Operating Temperature	T_{OPR}	-40 ... +80	°C
Storage Temperature	T_{STG}	-40 ... +100	°C
Soldering Temperature	T_{SOL}	260	°C

Notes

1. All dimensions are millimeters
2. Tolerances are ±0.1 mm unless otherwise specified.
3. Under the stipulated characteristics parameters above, the life span of the LED is more than 20,000 hours.
4. The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.



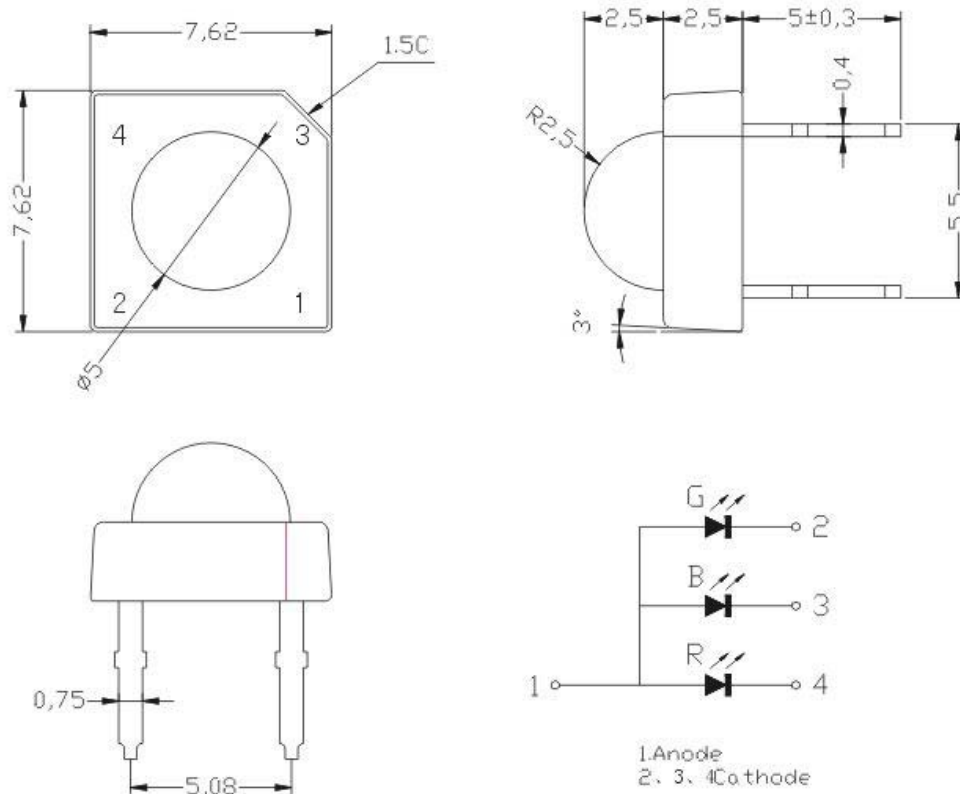
ROITHNER LASERTECHNIK

Wiedner Hauptstraße 76, A-1040 Vienna, Austria

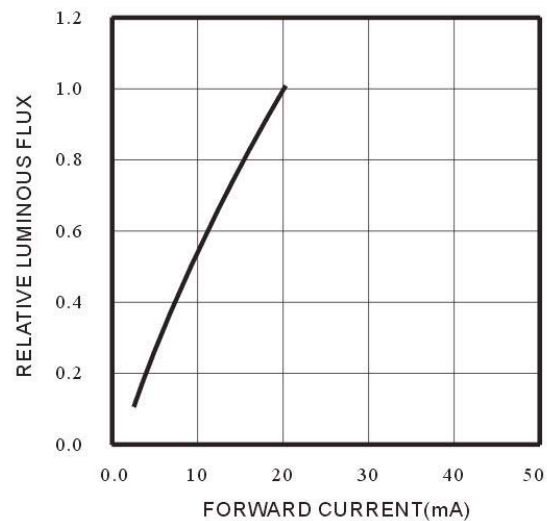
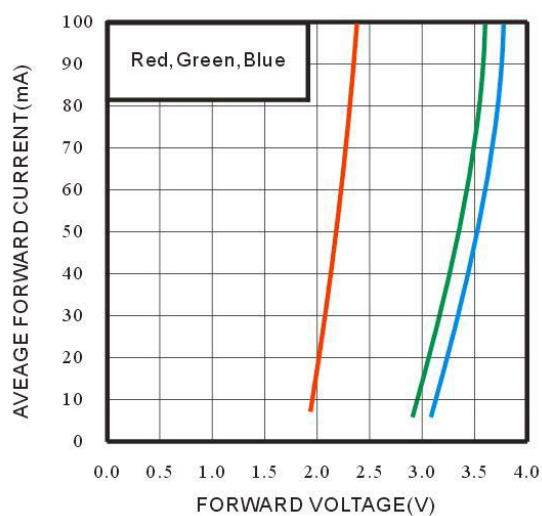
Tel.: ++43 1 586 52 43-0, Fax -44, office@roithner-laser.com



Figure and Size (Unit:mm)



Typical Optical/Electrical Characteristics Curves (Ta=25°C)





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