

LED – Light Emitting Diode

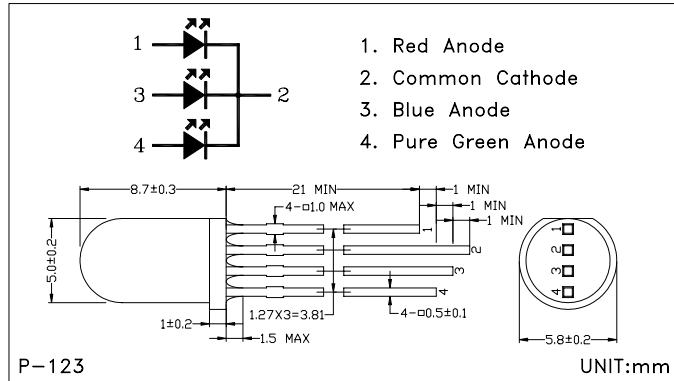
3-06-11-27

Module No.: W05123RBP GUW-BKT

Features:

Ø5mm
 Tri-Color
 RED + BLUE
 + PURE GREEN
 White Diffuse (Milky)
 Ultra Bright
 Common Cathode

Dimensions



Absolute Maximum Ratings

(Ta=25°C)

Descriptions	Symbol	Value	Unit
Continuous Forward Current	IF	30	mA
Peak Forward Current *1	IFM	35	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-25 ~ +65	°C
Storage Temperature	Tstg	-25 ~ +85	°C
Soldering Temperature *1	Tsol	260	°C

*1 Duty ratio = 1/10, Pulse width = 0.1ms.

*2 At the position of 2mm from the bottom face of resin package within 5 sec.

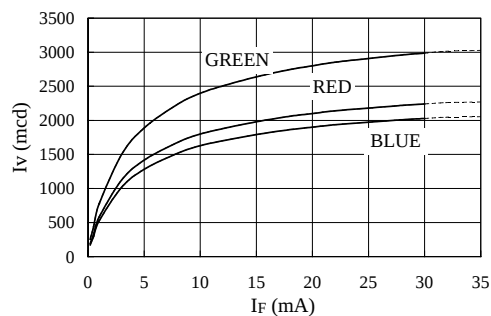
Electro-optical Characteristics

(Ta=25°C)

Descriptions	Symbol	Conditions	Min.	Typ.	Max.	Unit
Red	Forward Voltage	VF	IF=20mA	2.0	2.8	V
	Luminous Intensity *3	IV	IF=20mA	1500	2100	mcd
	Peak Emission Wavelength	λp	IF=20mA	623		nm
	Spectrum Radiation Bandwidth	Δλ	IF=20mA	30		nm
Blue	Forward Voltage	VF	IF=20mA	3.2	4.0	V
	Luminous Intensity *3	IV	IF=20mA	1300	1900	mcd
	Peak Emission Wavelength	λp	IF=20mA	470		nm
	Spectrum Radiation Bandwidth	Δλ	IF=20mA	30		nm
Pure Green	Forward Voltage	VF	IF=20mA	3.2	4.0	V
	Luminous Intensity *3	IV	IF=20mA	1700	2800	mcd
	Peak Emission Wavelength	λp	IF=20mA	518		nm
	Spectrum Radiation Bandwidth	Δλ	IF=20mA	30		nm
All	Half Power Beam Angle	Δθ		±40		deg.
	Terminal Capacitance	Ct		25		pF
	Response Frequency	fc		8		MHz

*3 Tolerance: ±30%

Luminous Intensity vs
Forward Current



Radiation Diagram

