

PRODUCT SPECIFICATION

Part Number
PL311A-3RY1201

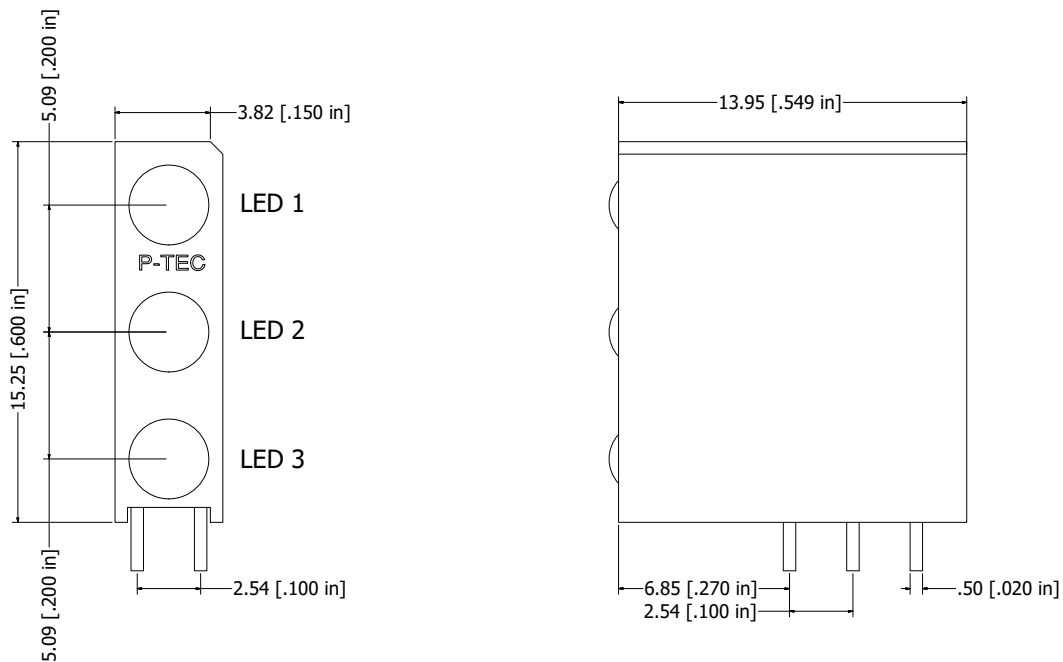
Details

- Tri-Level CBI LED
- Bi-Color Orange-Red/Yellow Emitting
- Chip Material: GaAsP/GaP
- Housing material Nylon 66 UL94V-2

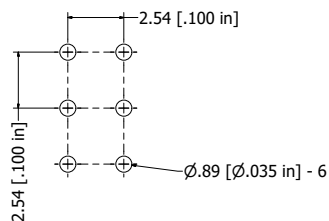
Features

- RoHS Compliant
- Space-Saving Circuit Board Indicator
- Rugged and Durable
- LEDs Have White Diffused Lens

Mechanical Dimensions



Recommended PCB Layout



Notes:

1. All dimensions are in millimeters unless otherwise noted
2. Tolerance is ± 0.25 mm unless otherwise noted
3. Specifications subject to change without notice



Device Selection Guide

Part Number	Housing Material	LED Lens Type		
		Material	Emitting Color	Lens Type
PL311A-3RY1201	Nylon 66 UL94V-2	GaAsP/GaP	Orange-Red	White Diffused
		GaAsP/GaP	Yellow	

LED Absolute Maximum Ratings at Ta=25 °C

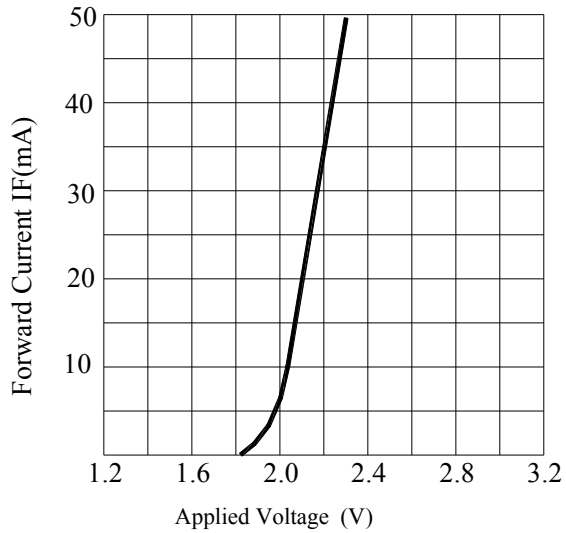
Parameter	Symbol	Rating	Unit
Power Dissipation	PD	78	mW
Reverse Voltage	VR	5	V
DC Forward Current	IF	30	mA
Reverse (Leakage) Current	Ir	100	μA
Peak Current (duty cycle 1/10, 1KHz)	IPF	100	mA
Operating Temperature	Topr	-25~+85	°C
Storage Temperature	Tstg	-40~+100	°C
Soldering Temperature (1.6mm from body)	Tsol.	Dip Soldering : 260°C for 5 sec. Hand Soldering : 350°C for 3 sec.	

LED Electrical and Optical Characteristics at Ta=25 °C

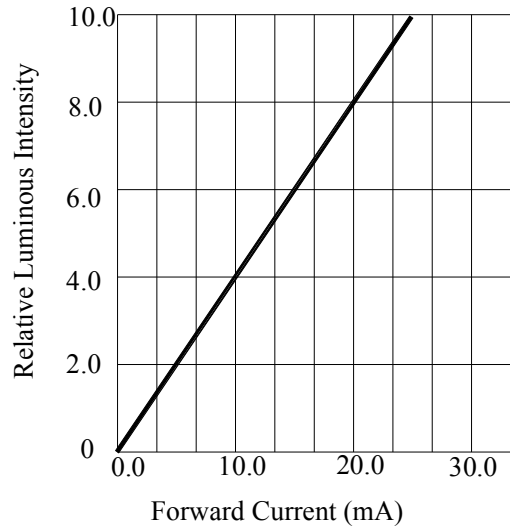
Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	Red	3.0	8.0	--	mcd	IF=20mA
		Yellow	3.0	8.0	--		
Forward Voltage	Vf	Red	--	2.1	2.6	V	
		Yellow	--	2.1	2.6		
Peak Wavelength	λp	Red	--	642	--	nm	
		Yellow	--	585	--		
Dominant Wavelength	λd	Red	--	629	--		
		Yellow	--	590	--		
Reverse (Leakage) Current	Ir	--	--	--	100	μA	Vr=5V
Viewing Angle	2θ1/2	--	--	118	--	--	deg
Spectrum Line Halfwidth	Δλ	Red	--	35	--	nm	IF=20mA
		Yellow	--	35	--	nm	

- Notes: 1. Tolerance of Luminous Intensity is ±15%
 2. Tolerance of Forward Voltage is ±0.1V
 3. Tolerance of Dominant Wavelength is ±1nm
 4. Customer's special requirements are welcome.

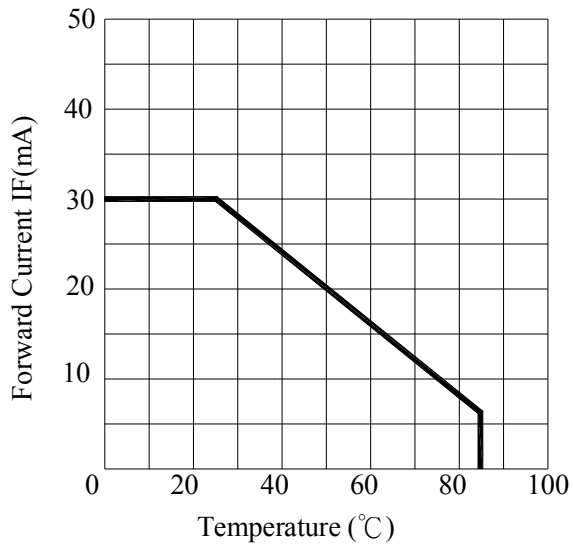
LED Typical Electrical / Optical Characteristic Curves



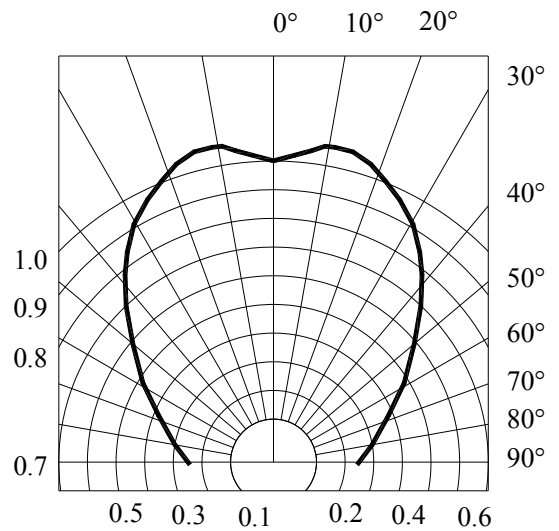
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RADIATION DIAGRAM



PL311A-3RY1201 Customer Approval Signatures	Approved By	Checked By	Notes/Remarks

Record Of Revisions			
Rev.	Comments	Page	Date
0	Released Spec	--	8/07/2018