

Round-Top View Type

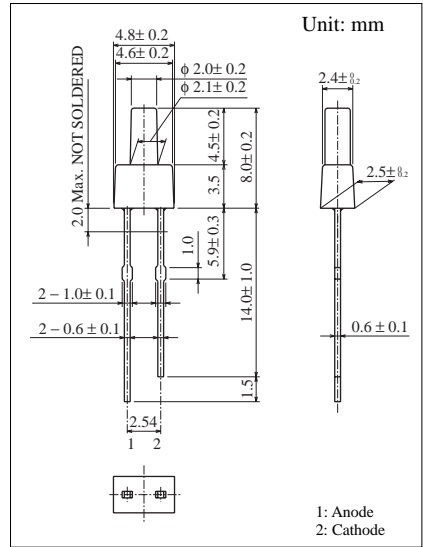
φ 2.0 mm Series

Conventional Part No.	Global Part No.	Lighting Color
LN222RP	LNG222RDR	Red
LN322GP	LNG322GDG	Green
LN422YP	LNG422YDX	Amber

Absolute Maximum Ratings (T_a = 25°C)

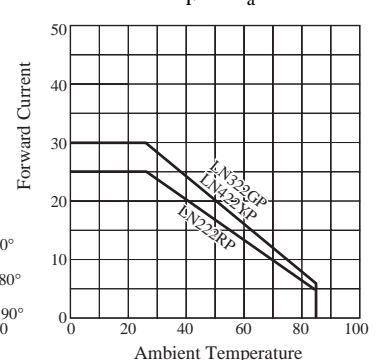
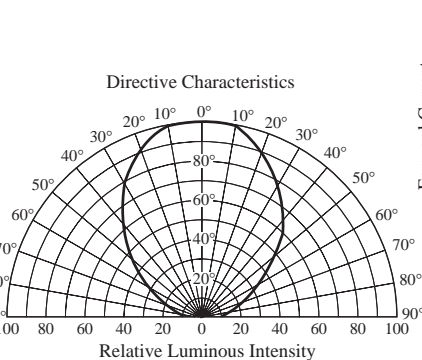
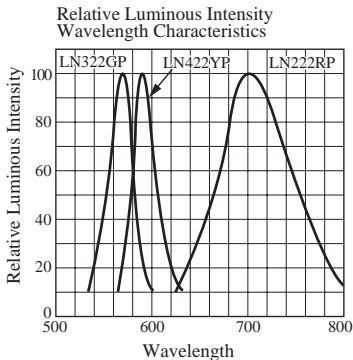
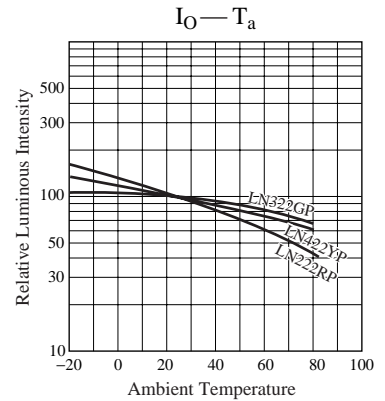
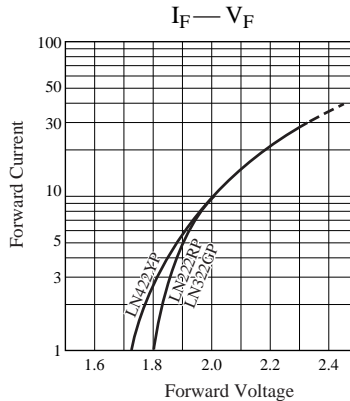
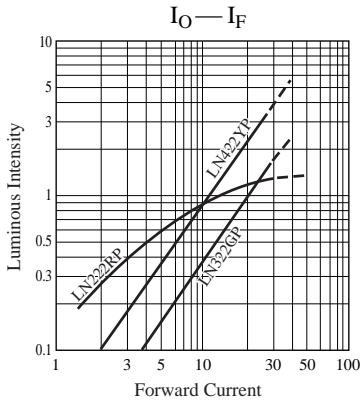
Lighting Color	P _D (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{opr} (°C)	T _{stg} (°C)
Red	70	25	150	4	-25 ~ +85	-30 ~ +100
Green	90	30	150	4	-25 ~ +85	-30 ~ +100
Amber	90	30	150	4	-25 ~ +85	-30 ~ +100

Pulse width 1 msec. The condition of I_{FP} is duty 10%, Pulse width 1 msec



Electro-Optical Characteristics (T_a = 25°C)

Conventional Part No.	Lighting Color	Lens Color	I _O		I _F	V _F		λ _P	Δλ	I _F	I _R	
			Typ	Min		Typ	Max				Typ	Max
LN222RP	Red	Red Diffused	1.0	0.4	15	2.2	2.8	700	100	20	5	4
LN322GP	Green	Green Diffused	1.0	0.4	20	2.2	2.8	565	30	20	10	4
LN422YP	Amber	Amber Diffused	2.5	1.2	20	2.2	2.8	590	30	20	10	4
Unit	—	—	mcd	mcd	mA	V	V	nm	nm	mA	μA	V



Caution for Safety

 **DANGER**

Gallium arsenide material (GaAs) is used in this product.

Therefore, do not burn, destroy, cut, crush, or chemically decompose the product, since gallium arsenide material in powder or vapor form is harmful to human health.

Observe the relevant laws and regulations when disposing of the products. Do not mix them with ordinary industrial waste or household refuse when disposing of GaAs-containing products.

Request for your special attention and precautions in using the technical information and semiconductors described in this material

- (1) An export permit needs to be obtained from the competent authorities of the Japanese Government if any of the products or technologies described in this material and controlled under the "Foreign Exchange and Foreign Trade Law" is to be exported or taken out of Japan.
- (2) The technical information described in this material is limited to showing representative characteristics and applied circuit examples of the products. It does not constitute the warranting of industrial property, the granting of relative rights, or the granting of any license.
- (3) The products described in this material are intended to be used for standard applications or general electronic equipment (such as office equipment, communications equipment, measuring instruments and household appliances).
Consult our sales staff in advance for information on the following applications:
 - Special applications (such as for airplanes, aerospace, automobiles, traffic control equipment, combustion equipment, life support systems and safety devices) in which exceptional quality and reliability are required, or if the failure or malfunction of the products may directly jeopardize life or harm the human body.
 - Any applications other than the standard applications intended.
- (4) The products and product specifications described in this material are subject to change without notice for reasons of modification and/or improvement. At the final stage of your design, purchasing, or use of the products, therefore, ask for the most up-to-date Product Standards in advance to make sure that the latest specifications satisfy your requirements.
- (5) When designing your equipment, comply with the guaranteed values, in particular those of maximum rating, the range of operating power supply voltage and heat radiation characteristics. Otherwise, we will not be liable for any defect which may arise later in your equipment.
Even when the products are used within the guaranteed values, redundant design is recommended, so that such equipment may not violate relevant laws or regulations because of the function of our products.
- (6) When using products for which dry packing is required, observe the conditions (including shelf life and after-unpacking standby time) agreed upon when specification sheets are individually exchanged.
- (7) No part of this material may be reprinted or reproduced by any means without written permission from our company.

Please read the following notes before using the datasheets

- A. These materials are intended as a reference to assist customers with the selection of Panasonic semiconductor products best suited to their applications.
Due to modification or other reasons, any information contained in this material, such as available product types, technical data, and so on, is subject to change without notice.
Customers are advised to contact our semiconductor sales office and obtain the latest information before starting precise technical research and/or purchasing activities.
- B. Panasonic is endeavoring to continually improve the quality and reliability of these materials but there is always the possibility that further rectifications will be required in the future. Therefore, Panasonic will not assume any liability for any damages arising from any errors etc. that may appear in this material.
- C. These materials are solely intended for a customer's individual use.
Therefore, without the prior written approval of Panasonic, any other use such as reproducing, selling, or distributing this material to a third party, via the Internet or in any other way, is prohibited.