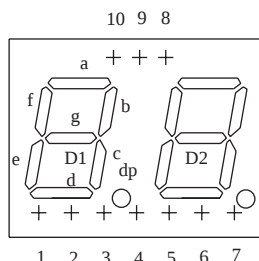


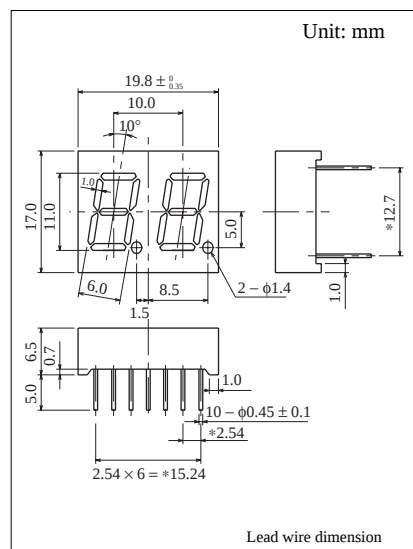
2 Digit 11.0mm (.4") Series

Conventional Part No.	Global Part No.	Lighting Color
LN524RAS	LNM224AS01D	Red
LN524RKS	LNM224KS01D	Red
LN524GAS	LNM324AS01D	Green
LN524GKS	LNM324KS01D	Green

Terminal Connection



Pin No.	Assignment	Assignment
1	Cathode c1	Anode c1
2	Cathode e1	Anode e1
3	Cathode d1	Anode d1
4	Common Anode D1	Common Cathode D1
5	Common Anode D2	Common Cathode D2
6	Cathode d2	Anode d2
7	Cathode e2	Anode e2
8	Cathode c2	Anode c2
9	Cathode g2	Anode g2
10	Cathode a2	Anode a2
11	Cathode f2	Anode f2
12	Cathode b2	Anode b2
13	Cathode b1	Anode b1
14	Cathode f1	Anode f1
15	Cathode a1	Anode a1
16	Cathode g1	Anode g1



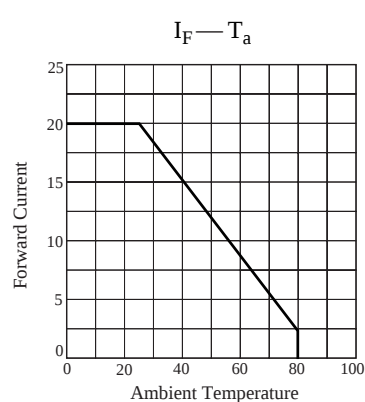
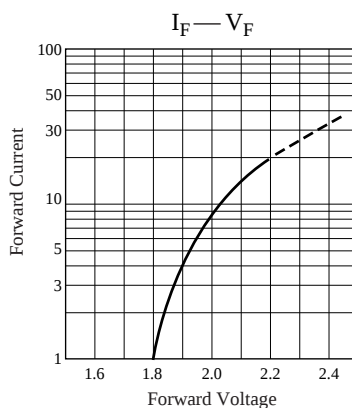
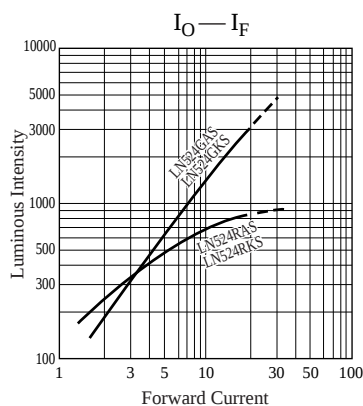
■ Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Lighting Color	P_D (mW)	I_F (mA)	I_{FP} (mA)*	V_R (V)	T_{opr} ($^\circ\text{C}$)	T_{stg} ($^\circ\text{C}$)
Red	60	20	100	5	-25 ~ +80	-30 ~ +85
Green	60	20	100	5	-25 ~ +80	-30 ~ +85

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

■ Electro-Optical Characteristics ($T_a = 25^\circ\text{C}$)

Conventional Part No.	Lighting Color	Common	I_O		$I_O/d.p$	I_F	V_F		λ_P	$\Delta\lambda$	I_F	I_R	
			Typ	Min			Typ	Max				Max	V_R
LN524RAS	Red	Anode	450	150	—	5	2.2	2.8	700	100	20	10	5
LN524RKS	Red	Cathode	450	150	—	5	2.2	2.8	700	100	20	10	5
LN524GAS	Green	Anode	1500	500	—	10	2.2	2.8	565	30	20	10	5
LN524GKS	Green	Cathode	1500	500	—	10	2.2	2.8	565	30	20	10	5
Unit	—	—	μcd	μcd	μcd	mA	V	V	nm	nm	mA	μA	V



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.