

SHARPMICROELECTRONICS
OF THE AMERICAS**Product Change Notification****Type of Notification: Product Discontinuation (Revised)**

ORIGINAL ISSUE DATE	LAST BUY DATE	NOTIFICATION NO.	LAST SHIP DATE
7 October 2008	22 May 2009	PCN-20081007-01-R	30 September 2009

***This is to advise you that the following products have been discontinued.
New information from the factory requires a change in this Notification.***

Product ID (Description):

LCD Modules:

- LQ10D368
- LQ104V1DG51

Description of Change:

This PCN was revised 12 November 2008.

Sharp is discontinuing the above LCD Modules. Alternate parts are available (See the Tables), and those are form, fit, *but differ in optical performance* from their replacements.

The new modules are electrical and mechanical drop-in replacements for the existing modules. Sharp continually refines its manufacturing processes; in this case resulting in superior, but slightly different, optical characteristics. The Tables below give specific model-to-replacement comparisons. Revisions to the original PCN are shown below the 'Optical Differences' banner in the table.

SPECIFICATION	LQ10D368 (OBSOLETE)	LQ10D36A (REPLACEMENT)
Backlight Connector	BHR-03VS-1 (JST)	BHR-02 (8.0) VS-1N (JST)
Power Dissipation (Panel)	0.6 W	0.7 W
Input Voltage (V_{IL} , V_{IH})	$0.3 \times V_{CC}$, $0.7 \times V_{CC}$	0.8 V, 2.1 V
Response Time	60 ms	35 ms

OPTICAL DIFFERENCES

Contrast Ratio	300:1	500:1
Viewing Angle Vertical (12 o'clock)	40°	50°
Viewing Angle Vertical (6 o'clock)	70°	60°
Viewing angle range to 50% of maximum brightness - Vertical (12 o'clock)	35°	30°
Viewing angle range to 50% of maximum brightness - Vertical (6 o'clock)	30°	25°
Viewing angle range to 50% of maximum brightness - Horizontal	45°	40°

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SPECIFICATION	LQ104V1DG51 (OBSOLETE)	LQ104V1DG5A (REPLACEMENT)
Backlight Connector	BHR-03VS-1 (JST)	BHR-02 (8.0) VS-1N (JST)
Power Dissipation (Panel)	0.6 W	0.7 W
Input Voltage (V_{IL} , V_{IH})	$0.3 \times V_{CC}$, $0.7 \times V_{CC}$	0.8 V, 2.1 V

OPTICAL DIFFERENCES

Contrast Ratio	300:1	500:1
Viewing Angle Vertical (12 o'clock)	40°	50°
Viewing Angle Vertical (6 o'clock)	70°	60°
Viewing angle range to 50% of maximum brightness - Vertical (12 o'clock)	35°	30°
Viewing angle range to 50% of maximum brightness - Vertical (6 o'clock)	35°	25°
Viewing angle range to 50% of maximum brightness - Horizontal	45°	40°

Effect of Change:

The LQ10D368 and LQ104V1DG51 LCD Modules are obsolete as of this notice (alternatives are available). These obsolete part numbers will move to a category type "D" (Discontinued) classification effective immediately. Replacement parts exist.

Upon receipt of this notice should distributors wish to return parts that are in stock, they will have the option to do so, provided the product was not category type "C" (Non-cancellable, non-returnable) when ordered. Product must be in either factory sealed or Sharp warehouse sealed boxes, as per the terms of our agreement. Requests must be received within 60 days of receipt of this notice.

Suggested Alternate Parts and/or Manufacturers:

OBSOLETED SHARP PART NO.	SUGGESTED ALTERNATE PART NO.	ALTERNATE MANUFACTURER
LQ10D368	LQ10D36A	SHARP
LQ104V1DG51	LQ104V1DG5A	

Customers must notify Sharp Microelectronics of the Americas in writing 90 days before the last buy date if they consider the discontinued product to be "Single Source". Sharp Microelectronics of the Americas and the customer may negotiate an appropriate End-of-Life Agreement.

In case of further questions, please contact your Sharp sales representative.

Customer Acknowledgement of receipt of Product Notification.

Acceptance:

Name:

Title:

Company:

Date: