

ISSUE DATE	SAMPLES AVAILABLE	RTR	MASS PRODUCTION	NOTIFICATION NO.
23 Oct. 2020	Nov. 2020	Dec. 2020	March 2021	PCN-2020-10-23-02-LG52

This is to advise you about the following design change.

**PRODUCT ID (DESCRIPTION):**

LCD Modules: LQ121K1LG52, LQ121K1LG52A/T and LQ121K1LG52C.

**DESCRIPTION OF CHANGE:**

Sharp is updating the design of the LQ121K1LG52, LQ121K1LG52A/T and LQ121K1LG52C due to a part number change for the following components: LED Driver IC and T-CON IC. See Tables I - III on pages 2 - 3 of this document for details.

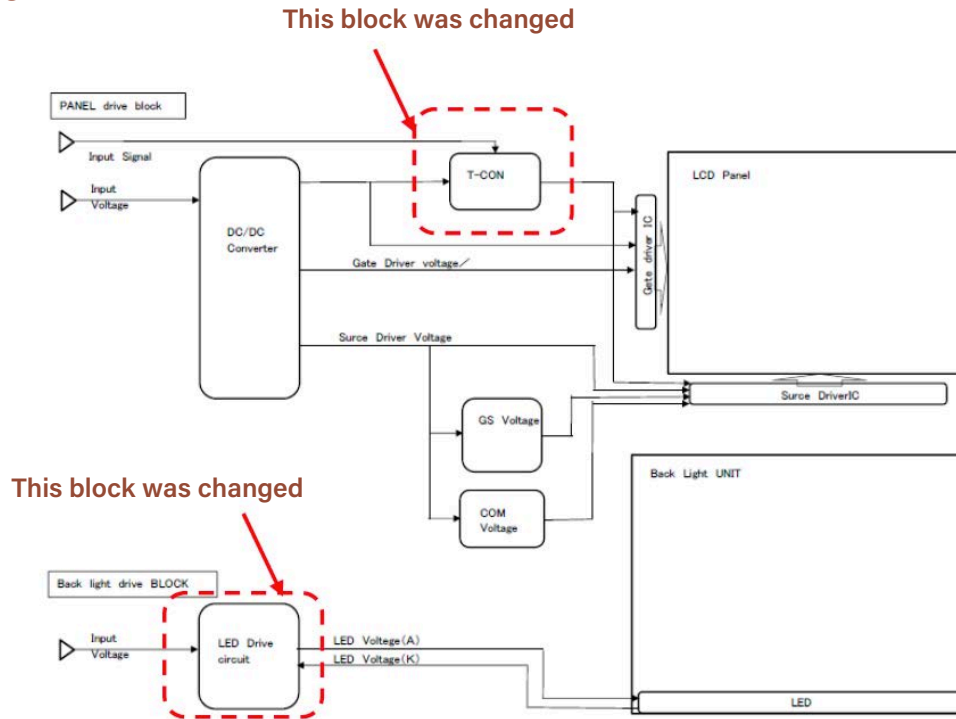
**EFFECT OF CHANGE:**

This update will result in NO CHANGE to form, fit, function, reliability, or specification for the LQ121K1LG52, LQ121K1LG52A/T and LQ121K1LG52C LCD Modules.

For more information, please contact your Sharp Sales Representative.

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## I. Changed Part



## II. Comparative Chart of Basic Specifications:

### LED Driver IC

	Current	After	LCD design
Vendor	SHARP	ROHM	
Parts No	IR2E58U	BD65D00MUV	
Package	HQFN(24pin)	VQFN(28pin)	
Input Voltage	4.5V~28V	6.0V~27V	Typ.12V
Top	-40~85°C	-40~85°C	-30°C~80°C or less
Tst	-55~125°C	-55~150°C	
CH	8ch	4ch	4ch or less
Output Voltage	Max.45V	Max.41V	30V or less
OutputCurrent	Max.40mA/ch	Max.100mA/ch	In the specification
Enable	○	○	
PWB	○	○	
Error Terminal	○	○	LQ084S3LG03 only

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### III. Comparative Chart of Basic Specifications:

#### T-CON IC

	Current	After	LCD design
Vendor	ROHM	ROHM	
Type	Type.A	Type.B(Aの後継)	
Package	TQFP(80pin)	TQFP(64pin)	
Absolute Maximum	Max.4.0V	Max.4.0V	3.0V~3.6V
Input voltage	Vcc+0.3V	Vcc+0.3V	Vcc+0.0V
Operating temperature	-40~85°C	-40~85°C	-30~80°C
Storage temperature	-55~125°C	-55~125°C	-30~80°C
frequency	20~100MHz	20~100MHz	Typ.40MHz
InputSignal	LVDS	LVDS	—
Output Signal	Mini-LVDS	Mini-LVDS	—