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ACD-AU084-1673

PRODUCT DATA SHEET

10/28/10

8.4" SVGA LED BACKLIT TFT LCD DISPLAY

Sunlight Readability/Cool Operation

GENERAL DESCRIPTION

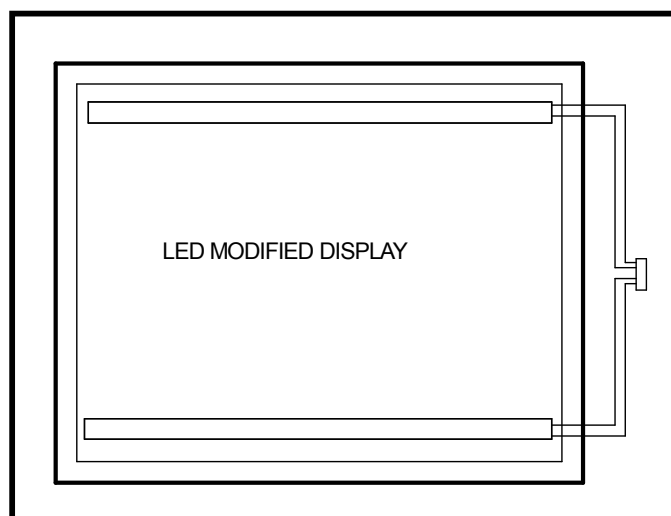
The ACD-AU084-1673 consists of the AUO G084SN05 V.7 8.4" SVGA TFT LCD Display modified with a high-performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 2.2 to 1.

Performance at given brightness level

2300 cd/m² with 13.0 Watts LED Power

Display outline identical to standard CCFL equipped panel.

For many applications, satisfies sunlight readability goals.



LCD PANEL HIGHLIGHTS

8.4" TFT LCD Module

SVGA 800(H) x 600(V)

Active Area: 170.4mm(H) x 127.8mm(V)

262k colors (RGB 6-bits data driver)

LVDS Electrical Interface

Contrast Ratio 600:1 Typical

Display Mode Normally White

Surface Treatment: Anti-Glare, Hardness 3H

RoHS Compliant

For complete LCD specifications (standard panel), refer to AUO datasheet G084SN05 V.7.

LED BACKLIGHT FEATURES

White LED edge-light rail set.

Single connector connection (Typically 8 inches in length), allows easy interconnect with LED driver.

Projected lifetime > 75,000 hours

Active fault protection keeps remaining LEDs operating normally, if one should ever fail.

1000:1 or better dimming ratio, guaranteed.

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MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
Top	Operating Temperature of Display (Center of Display Surface)	-30 to +85	°C
Tled	Operating Temperature of LED Edge Light (Light Rail Contact)	-30 to +85	°C
Tstg	Display Storage Temperature	-30 to +85	°C
Ifwd	LED Forward Current	125	mADC

*Maximum Ratings are those values beyond which damage may occur.

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 62.5mA per Bank. One Bank per Rail, two Rails in parallel per Dual Rail Set (ACR-1042-1927). One Dual Rail Set per Display. Ta = +25°C, LCD un-powered.

Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
Bp	Panel Brightness	After 1 hour stabilization	2070	2300	2530	cd/m ²
X	White X Coordinate			0.324		-
Y	White Y Coordinate			0.384		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 62.5mA per Bank. One Bank per Rail, two Rails in parallel per Dual Rail Set (ACR-1042-1927). One Dual Rail Set per Display. Top = +25°C

Symbol	Parameter	Test Conditions	Min	Nom	Max	Unit
Vfwd	LED Rail Forward Voltage Drop		94	104	114	VDC

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

