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ACD-SH156-2658

PRODUCT DATA SHEET – PAGE 1 OF 2

15.6" FHD LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-SH156-2658 consists of the Sharp LQ156M1LG21 FHD TFT display modified with a high performance LED backlight.

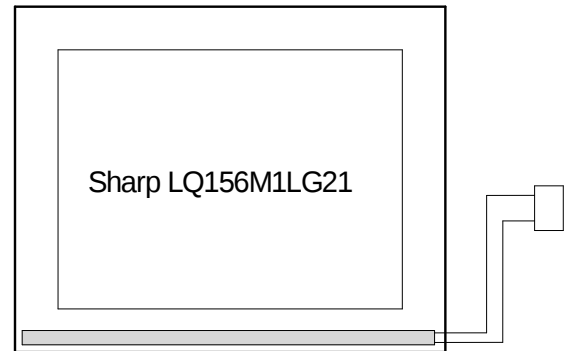
Performance at given brightness levels

1000 cd/m² with 22.3 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

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LCD PANEL HIGHLIGHTS

15.6" TFT Active Matrix Color

344.16 (H) mm x 193.59 (V) mm viewable area

FHD 1920 x 1080 pixels

16.2M colors

800:1 typical contrast ratio

Aspect Ratio: 16:9

Display Mode: Normally White

Surface Treatment: Anti-glare; Hard-Coating 3H

For complete LCD specification (standard panel), refer to Sharp datasheet LQ156M1LG21

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use one of the following:

ACI-E090330-2051

ACI-3070 (Conformal Coated with Humiseal 1B73)

MAXIMUM RATINGS*

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Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	0 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +80	Deg-C
Tstg	Display storage temperature	-30 to +70	Deg-C
Ifwd	LED forward current (DC)	99.0	mA

*Maximum Ratings are those values beyond which damage may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 82.5mA per bank, (LED rail ACR-0684-2456, 4 banks per rail, 1 rail per display), Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1200	cd/m ²
X	White X coordinate			0.253		-
Y	White Y coordinate			0.271		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 82.5mA per LED bank, 4 banks per rail, 1 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		61	68	75	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

