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ACD-NC104-1861

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10.4" SVGA LED BACKLIT TFT DISPLAY

Sunlight Readability/Cool operation

GENERAL DESCRIPTION

The ACD-NC104-1861 consists of the NEC NL8060BC26-30C SVGA TFT 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 levels

1000 cd/m² with 4.5 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals

03/17/10



LCD PANEL HIGHLIGHTS

10.4" TFT Active Matrix Color

211.2 (H) mm x 158.4 (V) mm viewable area

SVGA 800 x 600 pixels, 262,144 or 16,777,216 colors

900:1 typical contrast ratio

40% color gamut (NTSC color space)

For complete LCD specification (standard panel), refer to NEC datasheet NL8060BC26-30C

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 8 inches long), allows simple interconnect with LED driver

Projected lifetime > 75,000 hours

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

5000:1 or better dimming ratio guaranteed

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MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	-20 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-20 to +75	Deg-C
Tstg	Display storage temperature	-30 to +80	Deg-C
Ifwd	LED forward current	125	mADC

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

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 61mA (LED rail ACR-0801-1714), Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.332		-
Y	White Y coordinate			0.377		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 61mA, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		66	74	81	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

