4.4" Front Light Panel

12561-06 | Product Data Sheet | 2020



Overview

The **FLEx Front Light Panel** optical film is designed to laminate to the front surface of **Sharp reflective display (LSO44Q7DH01)** to provide high quality on-demand display lighting. This thin plastic panel incorporates only a single LED which enables product designers to develop ultra-thin devices and minimize battery use.

- One low-power LED (included in Front Light)
- Over 80x less power compared to traditional backlighting
- 0.05 mm thick FLEx film is over 5x thinner than alternative lightguides
- Simple I/F and Connectivity to System Board

For more information:

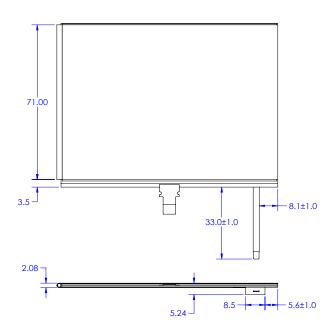
WEB flexlighting.com

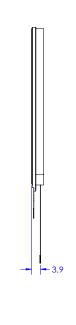
CONTACT flexlighting.com/contact

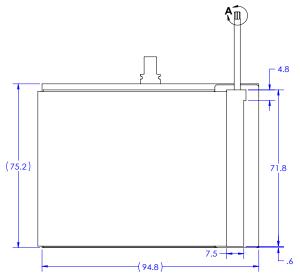
PHONE 773-295-0305

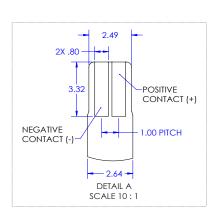


Mechanical









All dimensions in mm

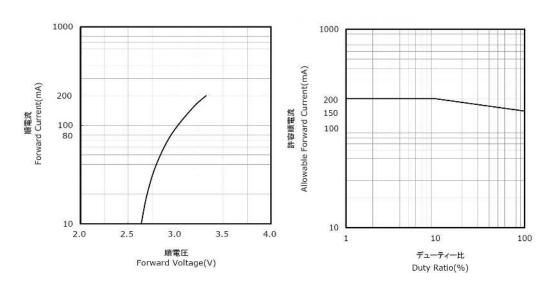
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Electrical

Item	Symbol	Typical	Absolute Max	Unit
Forward Current	I _F	60	80	mA
Pulse Forward Current	l _{EP}		200	mA
Reverse Voltage	V _D	2.95	3.4	V



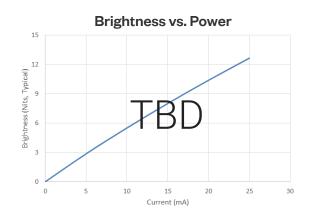
For more information: WEB flexlighting.com CONTACT flexlighting.com/contact PHONE **773-295-0305**

Example ZIF Connectors:

- Molex 503480-0400
- Molex 52745-0497
- Molex 54550-0471
- Molex 54548-0471 (bottom)
- Molex 505110-0492

Optical (PRELIMINARY)

4.4" Sharp + Front Light (12561-06)							
Item		Symbol	TYP.	Unit	Remark		
Viewing Angle CR >2	V	Θ 11 Θ 12		° (Degree)	Remark 1]		
	Н	Θ 21 Θ 22		° (Degree)			
Contrast Ratio	Front light ON	CR	10		[Remark 2]		



Remark 1: Viewing Angle Θ22

Reflection intensity in white display Contrast Ratio (CR) =

Reflection intensity in black display

Measurements taken with a Minolta Chroma Meter CS-100 at a 17" view distance

Remark 2: Definition of Contrast Ratio