



Endicott Research Group, Inc.

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SF2S4224CHF



Specifications and Applications Information

07/23/12

Preliminary

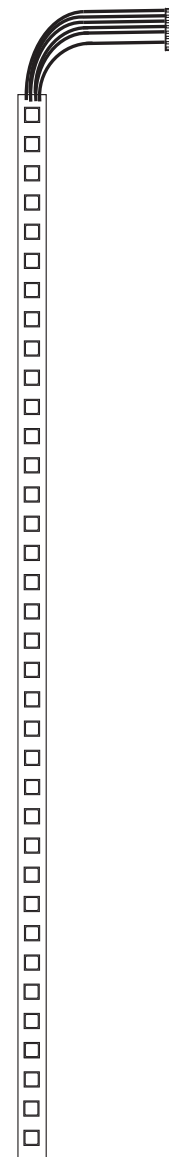
Smart Force LED Backlight Unit

The ERG *Smart Force Series* of LED backlight units are specifically designed for applications which require wide dimming and LCD brightness stability. The SF2S4224CHF is designed to provide backlighting for the LG Philips LM201W01SLA1 display.

Designed, manufactured and supported within the USA, the SFS features:

- ✓ High dimming ratio
- ✓ One year warranty

Package Configuration



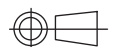
Components are shown for reference only. Actual product may differ from that shown.

Connector

Input Connector

Molex
51021-0800

- J1-1 Cathode 1
- J1-2 Anode A
- J1-3 Cathode 2
- J1-4 Anode B
- J1-5 Cathode 3
- J1-6 N/C
- J1-7 Cathode 4
- J1-8 N/C



**Absolute Maximum Ratings**

Rating	Symbol	Value	Units
Forward Current ⁽¹⁾	I_F	400	mA
Component Surface Temperature	T_s	-40 to +130	°C
Storage Temperature	T_{stg}	-40 to +125	°C

Maximum Recommended Operating Conditions ⁽²⁾

Rating	Symbol	Value	Units
Forward Current ⁽³⁾	I_F	200	mA
Component Surface Temperature	T_s	-40 to +125	°C

Electrical Characteristics

Unless otherwise noted $I_f = 350$ mA dc and $T_a = 25^\circ\text{C}$

Characteristic	Symbol	Min	Typ	Max	Units
Number of Strings	-	-	2	-	-
LED Forward Voltage	V_F	-	3.8	4.2	V
String voltage	V_S	-	34.2	37.8	V

Specifications subject to change without notice.

- (1) Current is specified per string.
- (2) Operation above maximum recommended operating conditions will require additional thermal management actions and will decrease LED lifetime.
- (3) Strings are to be driven with a current source.



J1, pins:

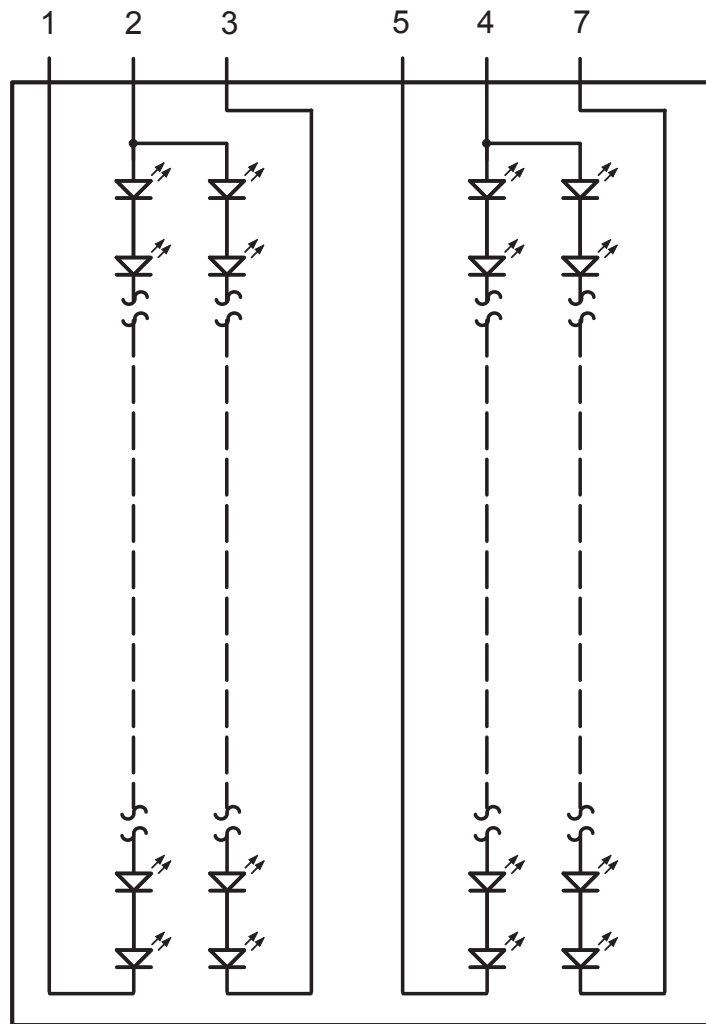


Figure 1
Connectivity



Endicott Research Group, Inc. (ERG) reserves the right to make changes in circuit design and/or specifications at any time without notice. Accordingly, the reader is cautioned to verify that data sheets are current before placing orders. Information furnished by ERG is believed to be accurate and reliable. However, no responsibility is assumed by ERG for its use.