



Endicott Research Group, Inc.

2601 Wayne St., Endicott, NY 13760

607-754-9187 Fax 607-754-9255

http://www.ergpower.com

SFS4247F



Specifications and Applications Information

05/06/13

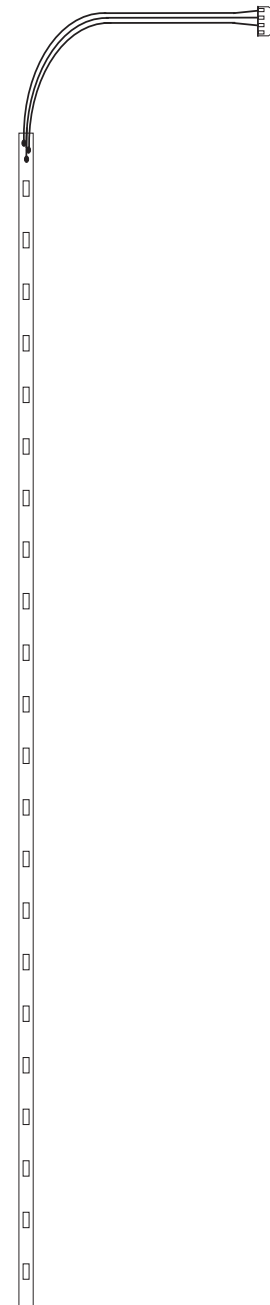
LED Backlight Unit

The ERG SFS4247F LED backlight unit is specifically designed for applications which require wide dimming and LCD brightness stability. The SFS4247F is designed to provide a backlight for the Optrex T-51513D104JU-FW-A-AIN display.

Designed, manufactured and supported within the USA, the SFS4247F features:

- ✓ Custom LED stick for Customer supplied rail
- ✓ High dimming ratio
- ✓ One year warranty

Package Configuration



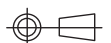
Components are shown for reference only. Actual product may differ from that shown.

Connector

Input Connector

Molex
51021-0400

J1-1 Cathode 1
 J1-2 Anode
 J1-3 Cathode 2
 J1-4 N/C



**Absolute Maximum Ratings**

Rating	Symbol	Value	Units
Forward Current ⁽¹⁾	I_F	200	mA
Component Surface Temperature	T_s	-40 to +100	°C
Storage Temperature	T_{stg}	-40 to +100	°C

Maximum Recommended Operating Conditions ⁽²⁾

Rating	Symbol	Value	Units
Forward Current ⁽³⁾	I_F	150	mA
Component Surface Temperature	T_s	-40 to +95	°C

Electrical Characteristics

Unless otherwise noted $I_F = 100$ mA dc and $T_a = 25^\circ\text{C}$

Characteristic	Symbol	Min	Typ	Max	Units
Number of Strings	-	-	2	-	-
LED Forward Voltage	V_F	2.8	3.0	3.4	V
String voltage	V_S	30.8	33.0	37.4	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.



Backlight Chromaticity Coordinate Boundaries ⁽¹⁾

(Ta = 25°C)

	A	B	C	D
X	0.296	0.283	0.304	0.311
Y	0.276	0.305	0.330	0.294

(1) Each column (A, B, C and D) represents an X,Y coordinate on the CIE 1931 chromaticity diagram.

CIE 1931 CHROMATICITY DIAGRAM

