

Endicott Research Group, Inc.

2601 Wayne St., Endicott, NY 13760 607-754-9187 Fax 607-754-9255 http://www.ergpower.com



Specifications and **Applications Information**

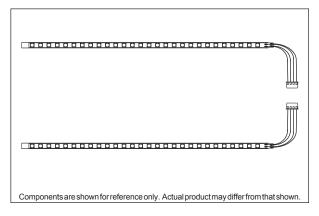
06/08/11

The ERG Smart Force Series of LED backlight units are specifically designed for applications which require wide dimming and LCD brightness stability. The SF2R4061CHF is designed to provide backlighting for the Mitsubishi AA170EB01 display.

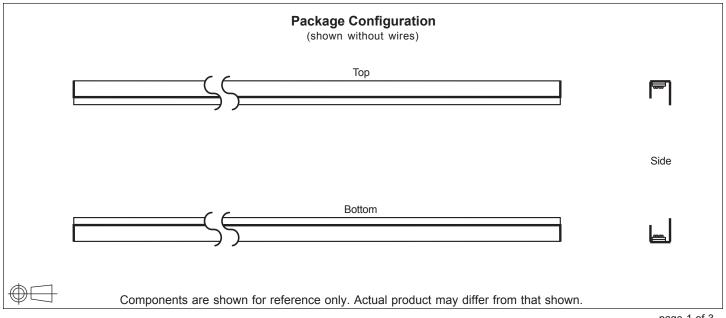
Designed, manufactured and supported within the USA, the SFR features:

- ✓ Custom rails for specific LCDs
- High dimming ratio
- Set of two rails: top and bottom
- One year warranty

Smart Force LED Backlight Unit



Connector Input Connector Molex J1 51021-0400 J1-1 Cathode 1 J1-2 Anode 1 J1-3 Cathode 2 J1-4 Anode 2





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Absolute Maximum Ratings

Rating	Symbol	Value	Units
Forward Current (1)	I _F	400	mA
Component Surface Temperature	Ts	-40 to +130	°C
Storage Temperature	Tstg	-40 to +125	°C

Maximum Recommended Operating Conditions (2)

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

Electrical Characteristics

Unless otherwise noted If = 350 mA dc and Ta = 25°C

Characteristic	Symbol	Min	Тур	Max	Units
Number of Strings	-	-	2	-	-
LED Forward Voltage	V _F	-	3.8	4.2	V
String voltage	V _s	-	53.2	58.8	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.



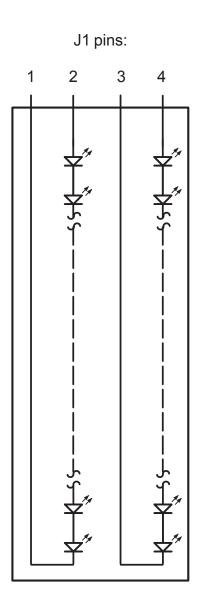


Figure 1
SFR Connectivity



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.