



Endicott Research Group, Inc.

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# SFR3672CHF



## Specifications and Applications Information

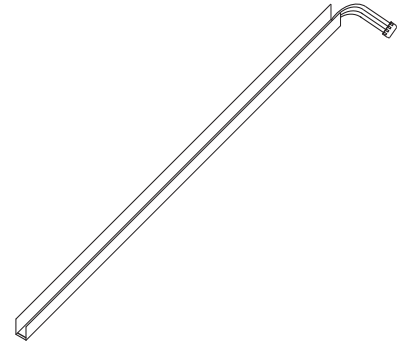
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### Smart Force LED Backlight Unit

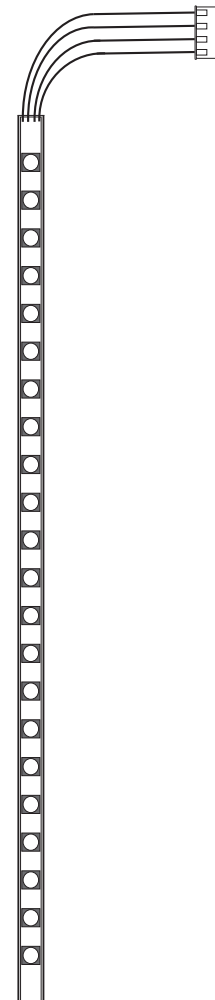
The ERG *Smart Force Series* of LED backlight units are specifically designed for applications which require wide dimming and LCD brightness stability. The SFR3672CHF is designed to provide backlight power for the NEC NL8060BC26-30C display.

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

- ✓ Custom rails for specific LCDs
- ✓ High dimming ratio
- ✓ One year warranty



Package Configuration

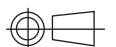


Components are shown for reference only. Actual product may differ from that shown.

#### Connector Input Connector

Molex  
51021-0400

- J1-1 Cathode 1
- J1-2 Anode 1
- J1-3 Cathode 2
- J1-4 Anode 2



**Absolute Maximum Ratings**

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

**Maximum Recommended Operating Conditions <sup>(2)</sup>**

Rating	Symbol	Value	Units
Forward Current <sup>(3)</sup>	$I_F$	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	$V_S$	-	41.8	46.2	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.

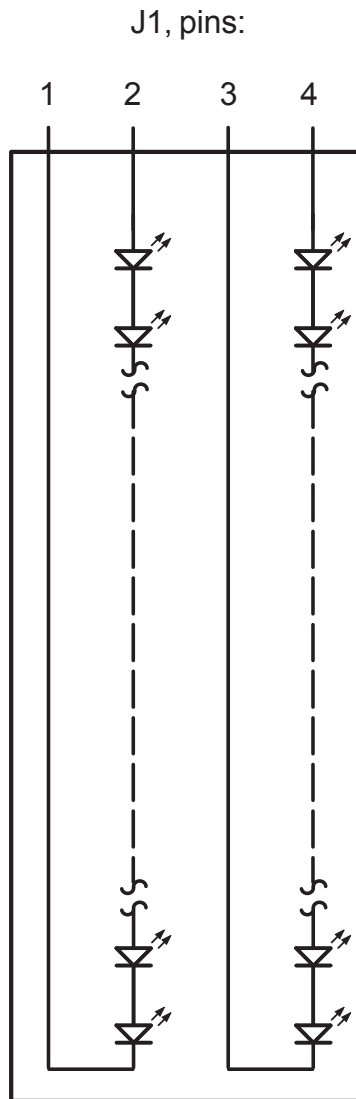


Figure 1  
SFR Connectivity



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.