Endicott Research Group, Inc.

2601 Wayne St., Endicott, NY 13760
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SFR3672CHF

RoHS Compliant
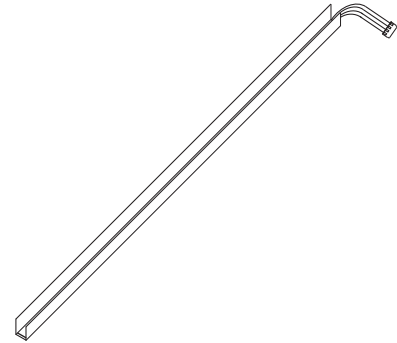
Specifications and Applications Information

06/08/11
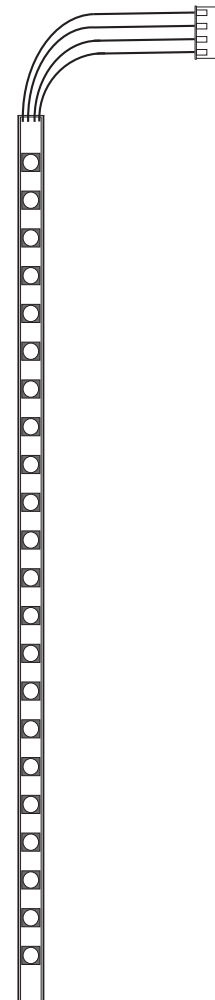
Smart Force LED Backlight Unit

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
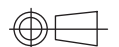
✓ One year warranty

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

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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	ºC
Storage Temperature	Tstg	-40 to +125	ºC

Maximum Recommended Operating Conditions [2]

Rating	Symbol	Value	Units
Forward Current [3]	I_F	200	mA
Component Surface Temperature	Ts	-40 to +125	ºC

Electrical Characteristics

Unless otherwise noted I_F = 350 mA dc and Ta = 25ºC

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.
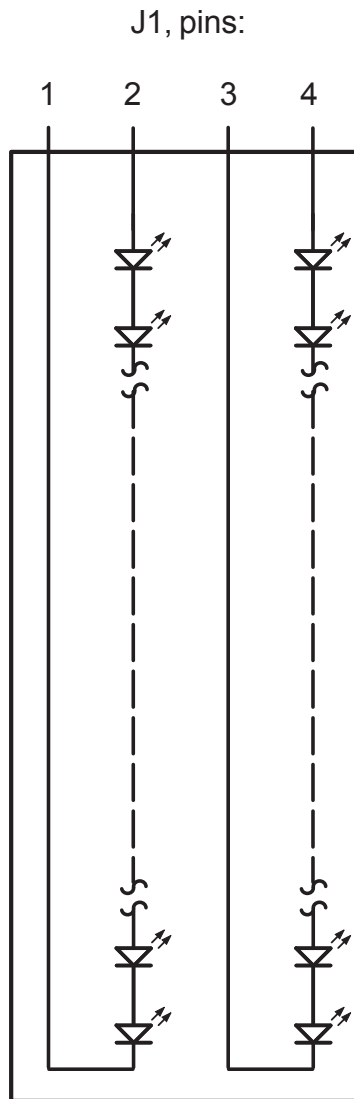(3) Strings are to be driven with a current source.

Made in USA

RoHS
Compliant

J1, pins:

1   2   3   4

Figure 1

SFR Connectivity