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# ACR-0851-1843

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## 9.0" SINGLE BANK LED RAIL

(Single Bank, 85V @ 100mA)

3/24/09

### GENERAL DESCRIPTION

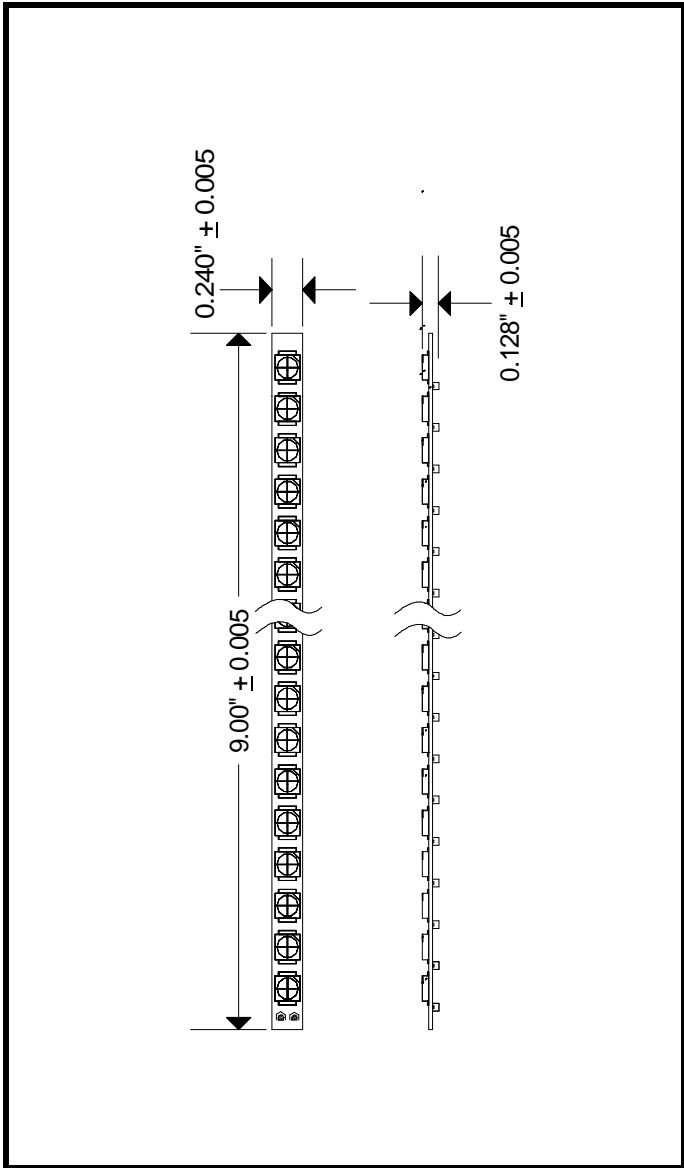
The ACR-0851-1843 is designed as a replacement for field replaceable, dual tube, single edge lit 10.4" CCFL displays. The rail utilizes protection circuits to ensure the whole rail will not fail in the unlikely event of an individual LED failure.

The rail requires the use of a constant current source to properly drive the LED's.

This LED rail is compatible with the I-Drive2, I-Drive3 and I-Drive4 LED driver platforms.

### MECHANICAL / ENVIRONMENTAL

- Weight = TBD grams
- Altitude = 35,000 Ft maximum
- Humidity < 95% non-condensing
- Size (L x W x H) = 9.0 IN x 0.240 IN x 0.128 IN
- PCB thickness = 0.030 IN
- Input connector = CON1
- RoHS compliant



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**MAXIMUM RATINGS**

3/24/09

Symbol	Parameter	Value	Unit
Tled	Operating temperature of LED edge light (light rail contact)	-20 to +75	Deg-C
Tstg	LED Rail storage temperature	-40 to +105	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	125	Ma

**LED OPTICAL CHARACTERISTICS**

LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 350 mA	50	55	60	Lm
X	White X coordinate			0.303		-
Y	White Y coordinate			0.296		-

**LED RAIL ELECTRICAL CHARACTERISTICS**

Ifwd = 100mA, Tled = +75Deg-C (LED's without heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		77	85	94	Vdc

**TYPICAL LED RAIL PERFORMANCE GRAPHS**

