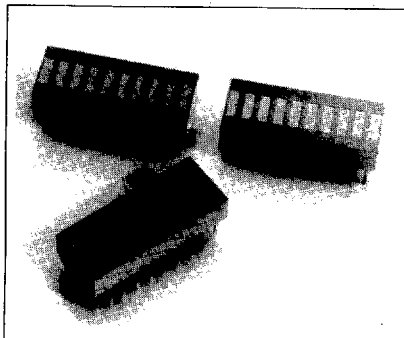
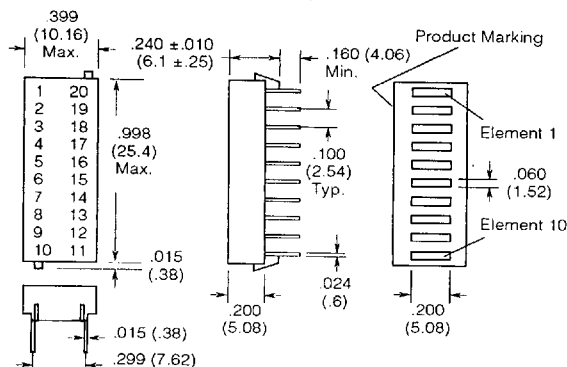


SIEMENS

RED RBG-4820
SUPER-RED OBG-4830
YELLOW YBG-4840
GREEN GBG-4850
10 Element Linear Display



Package Dimensions in Inches (mm)



FEATURES

- 10 Element Display
- End Stackable—Package Interlock for Alignment
- Matched LEDs for Uniform Display
- Anode and Cathode, Individually Addressable
- Intensity Coded for Display Uniformity
- Wide Viewing Angle
- Rugged Encapsulated Construction
- Standard Dual-In-Line Package
- High On-Off Contrast, Segment to Segment Hue Coded for Uniformity
- Choice of Four Colors

DESCRIPTION

The Red RBG-4820, Super-Red OBG-4830, Yellow YBG-4840, and Green GBG-4850 have 10 individual linear elements per bar display. These linear displays are designed to show information in easily recognizable bar graph form.

They are end stackable for expanded display lengths. The package interlock ensures that each bar graph will align accurately and correctly with the next one.

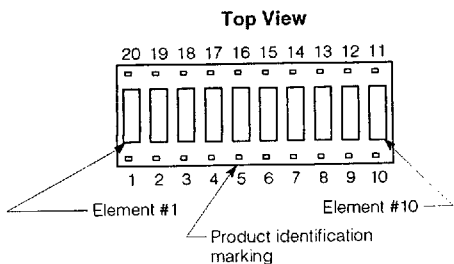
Applications include solid state meters, position indicators, and instrumentation.

Maximum Ratings

Storage/Operating Temperature Range	-20°C to +85°C
Lead Soldering Temperature, t=3 sec. (.063" below seating plane)	260°
Continuous Forward Current	
Red, Super-Red, Green	30 mA
Yellow	20 mA
Peak Reverse Voltage per LED	3 V
Derating Factor from 25°C	7.5 mW/°C
Power Dissipation at 25°C	450 mW

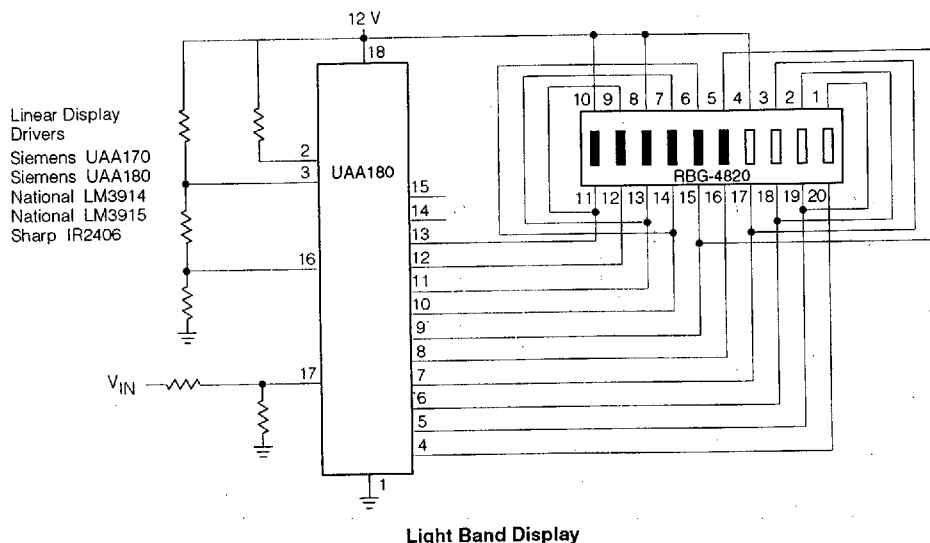
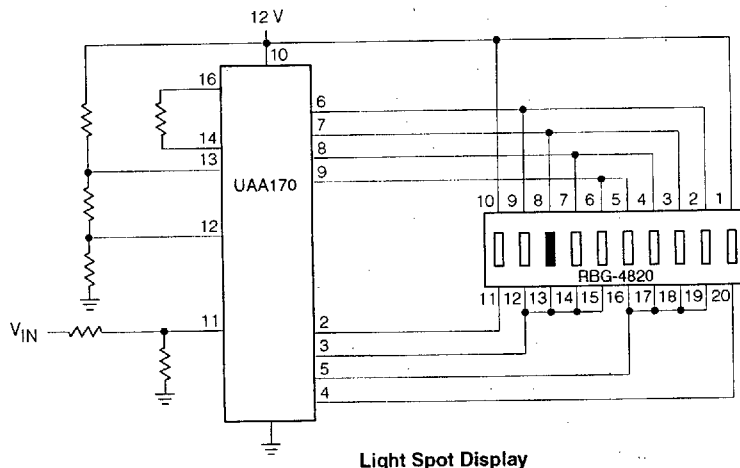
Optoelectronic Characteristics (T_A=25°C)

Parameter	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength					
Red		655		μcd	
Super-Red		635		μcd	
Yellow		583		μcd	
Green		566		μcd	
Dominant Wavelength					
Red		645		nm	
Super-Red		626		nm	
Yellow		585		nm	
Green		571		nm	
Forward Voltage/LED					
Red	1.6	2.0		V	I _F =20mA
Super-Red	2.1	2.5		V	I _F =20mA
Yellow	2.2	2.6		V	I _F =20mA
Green	2.1	2.5		V	I _F =10mA
Reverse Voltage/LED					
Red	3	12		V	I _R =100 μA
Super-Red	3	30		V	I _R =100 μA
Yellow, Green	3	50		V	I _R =100 μA
Luminous Intensity/LED					
Red	500			μcd	I _F =20mA
Super-Red	2500			μcd	I _F =20mA
Yellow, Green	2000			μcd	I _F =20mA



Pin	Function	Pin	Function
1	Anode 1	11	Cathode 10
2	Anode 2	12	Cathode 9
3	Anode 3	13	Cathode 8
4	Anode 4	14	Cathode 7
5	Anode 5	15	Cathode 6
6	Anode 6	16	Cathode 5
7	Anode 7	17	Cathode 4
8	Anode 8	18	Cathode 3
9	Anode 9	19	Cathode 2
10	Anode 10	20	Cathode 1

TYPICAL APPLICATIONS



Linear Display Drivers
 Siemens UAA170
 Siemens UAA180
 National LM3914
 National LM3915
 Sharp IR2406

No endorsement or warranty of other manufacturer's products is intended

RBG4820/OBG4830/YBG4840/GBG4850