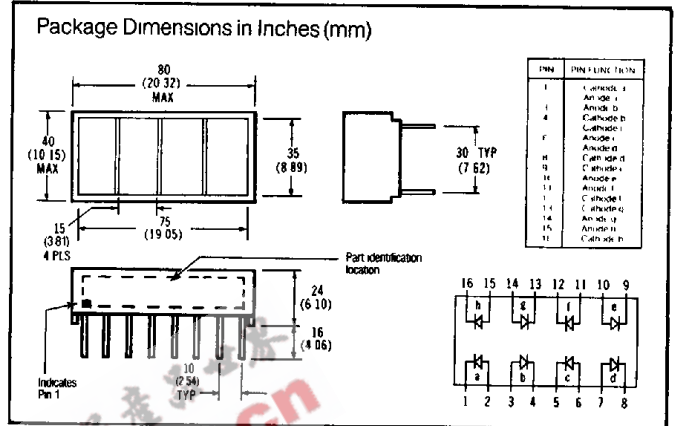
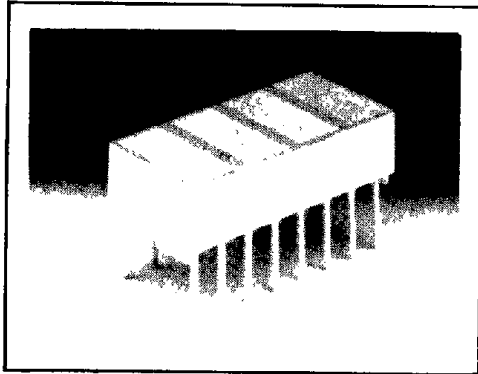


SIEMENS

T-41-31
SUPER-RED OLB 2620
YELLOW YLB 2720
GREEN GLB 2820
LIGHT BARS



FEATURES

- Large Rectangular Package
- Mechanical barrier creating four isolated rectangular light emitting areas
- Uniform Light Emitting Area
- Excellent ON/OFF Contrast
- Choice of Three Colors
- Categorized for Light Output
- Yellow and Green Categorized for Dominant Wavelength
- Panel or Legend Mountable
- Can be Mounted on P.C. Boards or DIP Sockets
- X-Y Stackable
- Suitable for Multiplexing
- IC Compatible

APPLICATIONS

These devices are ideally suited for:

- Message Annunciators
- Positions/Status Indicators
- Telecommunications Indicators
- Bar Graphs

DESCRIPTION

The OLB 2620/YLB 2720/GLB 2820 series light bars are rectangular displays. They are configured in a dual in-line package with a mechanical barrier creating four isolated rectangular light emitting areas. The OLB 2620 and YLB 2720 devices utilize eight LED chips which are made from GaAsP on a transparent GaP substrate. The GLB 2820 device utilizes eight chips made from GaP on a transparent GaP substrate.

Maximum Ratings

| | OLB 2620 & GLB 2820 | YLB 2720 |
|--|---------------------|----------|
| Average Power Dissipation per LED chip | 135mW | 85mW |
| Peak Forward Current per LED chip | 90mA | 60mA |
| Ta = 50°C (max pulse width = 2ms) | | |
| Average Forward Current per LED | 25mA | 20mA |
| Pulsed conditions (Ta = 50°C) | | |
| DC Forward Current Per LED | 30mA | 25mA |
| (Ta = 50°C) | | |
| Reverse Voltage per LED chip | 6V | 6V |
| Operating Temperature | -40°C to +85°C | |
| Storage Temperature | -40°C to +85°C | |
| Lead Soldering Temperature | 260°C for 3 sec | |
| 1/16 inch below seating plane | | |
| Junction Temperature | 100°C | |

Electrical/Optical Characteristics (@ 25°C)

| Parameters | Min. | Typ. | Max. | Units | Test Conditions |
|--|------|------|------|-------|------------------------|
| Luminous Intensity (per light emitting area) | | | | | |
| OLB2620 | 4.5 | 10 | | mcd | 20mA DC |
| YLB2720 | 4 | 6 | | mcd | 20mA DC |
| GLB2820 | 3.7 | 10 | | mcd | 20mA DC |
| Peak Wavelength | | | | | |
| OLB2620 | | 635 | | nm | |
| YLB2720 | | 583 | | nm | |
| GLB2820 | | 565 | | nm | |
| Dominant Wavelength | | | | | |
| OLB2620 | | 626 | | nm | |
| YLB2720 | | 585 | | nm | |
| GLB2820 | | 572 | | nm | |
| Forward Voltage | | | | | |
| OLB2620 | | 2.1 | 2.6 | V | I _F = 20mA |
| YLB2720 | | 2.2 | 2.6 | V | I _F = 20mA |
| GLB2820 | | 2.2 | 2.6 | V | I _F = 20mA |
| Reverse Voltage | | | | | |
| OLB2620 | 6 | 15 | | V | I _R = 100µA |
| YLB2720 | 6 | 15 | | V | I _R = 100µA |
| GLB2820 | 6 | 15 | | V | I _R = 100µA |