

**SIEMENS**

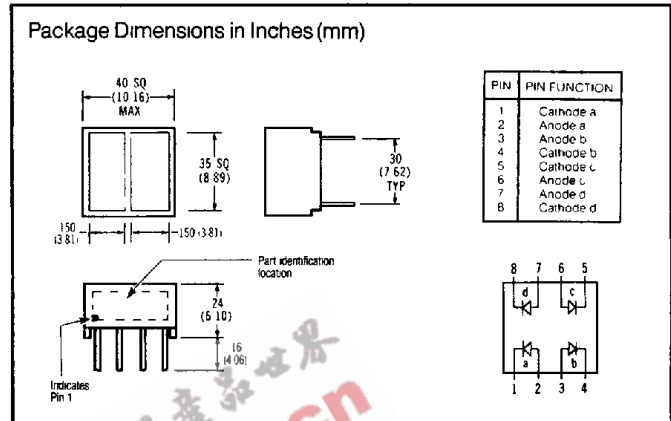
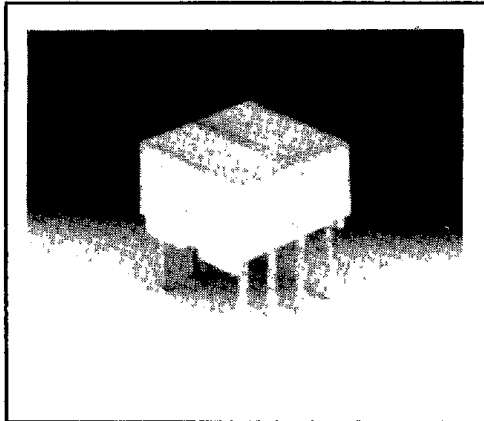
**SUPER-RED OLB 2600**

**YELLOW YLB 2700**

**GREEN GLB 2800**

**LIGHT BARS**

T-41-31



Num. Displays  
Bar Graphs  
Light Bars

**FEATURES**

- Square Package
- Mechanical barrier creating two 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 2600/YLB 2700/GLB 2800 series light bars are square displays. They are configured in a dual in-line package with a mechanical barrier creating two isolated rectangular light emitting areas. The OLB 2600 and YLB 2700 devices utilize four LED chips which are made from GaAsP on a transparent GaP substrate. The GLB 2800 device utilizes four chips made from GaP on a transparent GaP substrate.

**Maximum Ratings**

|   | OLB 2600 & GLB 2800 | YLB 2700 |
|---|---------------------|----------|
| 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 (Ta = 50°C)                    | 30mA                | 25mA     |
| Reverse Voltage per LED chip                              | 6V                  |          |
| Operating Temperature                                     | -40°C to +85°C      |          |
| Storage Temperature                                       | -40°C to +85°C      |          |
| Lead Soldering Temperature, 1/16 inch below seating plane | 260°C for 3 sec     |          |
| Junction Temperature                                      | 100°C               |          |

**Electrical/Optical Characteristics (@ 25°C)**

| Parameters                                   | Min. | Typ. | Max. | Units | Test Conditions |
|--|------|------|------|-------|-----------------|
| Luminous Intensity (per light emitting area) |      |      |      |       |                 |
| OLB2600                                      | 4.5  | 10   |      | mcd   | 20mA DC         |
| YLB2700                                      | 4    | 6    |      | mcd   | 20mA DC         |
| GLB2800                                      | 3.7  | 10   |      | mod   | 20mA DC         |
| Peak Wavelength                              |      |      |      |       |                 |
| OLB2600                                      |      | 635  |      | nm    |                 |
| YLB2700                                      |      | 583  |      | nrm   |                 |
| GLB2800                                      |      | 565  |      | nm    |                 |
| Dominant Wavelength                          |      |      |      |       |                 |
| OLB2600                                      |      | 626  |      | nm    |                 |
| YLB2700                                      |      | 585  |      | nm    |                 |
| GLB2800                                      |      | 572  |      | nm    |                 |
| Forward Voltage                              |      |      |      |       |                 |
| OLB2600                                      |      | 2.1  | 2.6  | V     | If = 20mA       |
| YLB2700                                      |      | 2.2  | 2.6  | V     | If = 20mA       |
| GLB2800                                      |      | 2.2  | 2.6  | V     | If = 20mA       |
| Reverse Voltage                              |      |      |      |       |                 |
| OLB2600                                      | 6    | 15   |      | V     | IR = 100µA      |
| YLB2700                                      | 6    | 15   |      | V     | IR = 100µA      |
| GLB2800                                      | 6    | 15   |      | V     | IR = 100µA      |