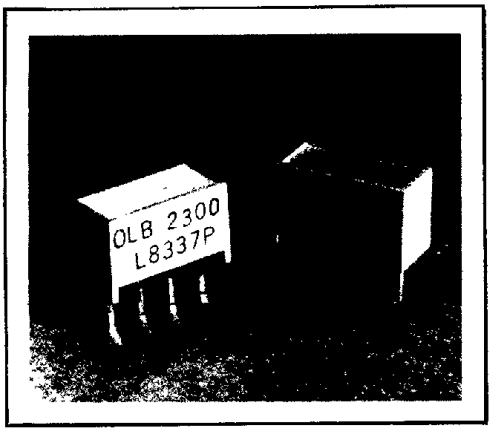
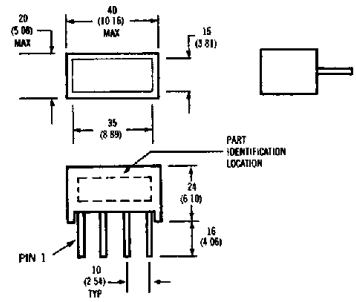
T-41-31

SIEMENS

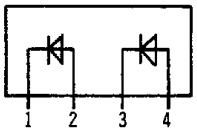
SUPER-RED OLB 2300
YELLOW YLB 2400
GREEN GLB 2500
LIGHT BARS



Package Dimensions in Inches (mm)



PIN	PIN FUNCTION
1	Cathode — a
2	Anode — a
3	Cathode — b
4	Anode — b



FEATURES

- **Small Rectangular Package**
- **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 SIP/DFP 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 2300/YLB 2400/GLB 2500 series light bars are rectangular displays designed for applications requiring a large light emitting area They are configured in a single in-line package and contain a single light emitting area The OLB 2300 and YLB 2400 devices utilize two LED chips which are made from GaAsP on a transparent GaP substrate. The GLB 2500 device utilizes two chips made from GaP on a transparent GaP substrate.

Maximum Ratings

	OLB 2300 & GLB 2500	YLB 2400
Average Power Dissipation per LED chip	135mW	85mW
Peak Forward Current per LED chip Ta = 50°C (max pulse width = 2ms)	90mA	60mA
Average Forward Current per LED Pulsed conditions (Ta = 50°C)	25mA	20mA
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					
OLB2300	4 5	10		mcd	20mA DC
YLB2400	4	6		mcd	20mA DC
GLB2500	3 7	10		mcd	20mA DC
Peak Wavelength					
OLB2300		635		nm	
YLB2400		583		nm	
GLB2500		565		nm	
Dominant Wavelength					
OLB2300		626		nm	
YLB2400		585		nm	
GLB2500		572		nm	
Forward Voltage					
OLB2300		1 9	2 6	V	$I_F = 20mA$
YLB2400		2	2 6	V	$I_F = 20mA$
GLB2500		2 1	2 6	V	$I_F = 20mA$
Reverse Voltage					
OLB2300	6	15		V	$I_R = 100\mu A$
YLB2400	6	15		V	$I_R = 100\mu A$
GLB2500	6	15		V	$I_R = 100\mu A$