

# B-2709X & B-2709EG series ...

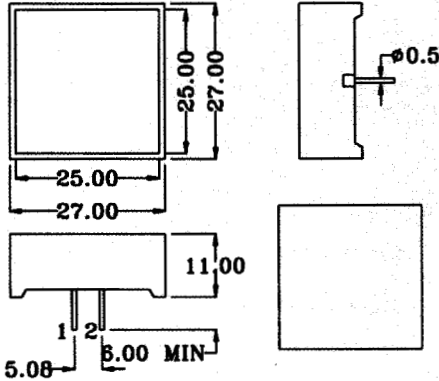
27mm x 27mm SQUARE LIGHT BAR

### MAIN FEATURES :

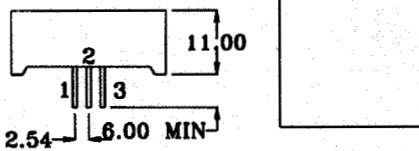
- ⊙ 27mm x 27mm SQUARE LIGHT BAR
- ⊙ LOW POWER REQUIREMENT
- ⊙ CAN BE USED WITH PANEL AND LEGEND MOUNT
- ⊙ SUITABLE FOR MULTIPLEX OPERATION
- ⊙ EASY MOUNTING ON P.C. BOARD

### ◆ PACKAGE DIMENSIONS

#### B-2709X

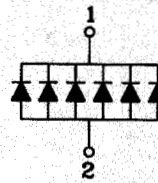


#### B-2709EG

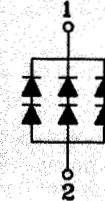


### ◆ PIN CONNECTION AND INTERNAL CIRCUIT

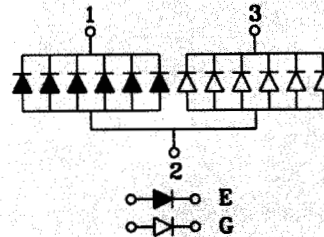
#### B-2709X



#### B-2709X-5



#### B-2709EG



### NOTES:

1. All Dimension are in millimeter(inches).
2. Tolerance is  $\pm 0.25\text{mm}(0.010\text{'})$  unless otherwise specified.

### ◆ SELECTION GUIDE AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

| Part No.   | Remark 1<br>Selection of<br>Surface Color | Chip<br>Raw<br>Material | Emitted<br>Color | C.C.<br>or<br>C.. | Wave<br>Length<br>$\lambda$ | Absolute Maximum Ratings |     |    |        |       | Electro-Optical Characteristics |         |       |      |      |
|------------|---|-------------------------|------------------|-------------------|-----------------------------|--------------------------|-----|----|--------|-------|---------------------------------|---------|-------|------|------|
|            |   |                         |                  |                   |                             | $\Delta\lambda$          | Pd  | If | If     | Vf(V) | If                              | Iv(mcd) |       |      |      |
|            |   |                         |                  |                   | $\lambda$ p(nm)             | nm                       | mW  | mA | (Peak) | Min.  | Typ.                            | Max.    | (Rec) | Min. | Typ. |
| B-2709E    | R   | GaAsP/GaP               | Hi. effi Red     |                   | 635                         | 45                       | 100 | 30 | 160    | 1.7   | 2.0                             | 2.8     | 10~20 | 6.0  | 16.0 |
| B-2709G    | G   | GaP                     | Green            |                   | 565                         | 30                       | 100 | 30 | 160    | 1.7   | 2.1                             | 2.8     | 10~20 | 6.0  | 14.0 |
| B-2709Y    | E,Y                                       | GaAsP/GaP               | Yellow           |                   | 585                         | 30                       | 100 | 30 | 160    | 1.7   | 2.1                             | 2.8     | 10~20 | 6.0  | 14.0 |
| B-2709SR   | R   | GaAlAs                  | Super Red        |                   | 660                         | 20                       | 60  | 20 | 160    | 1.6   | 1.8                             | 2.1     | 10~20 | 15.0 | 32.0 |
| B-2709E-5  | R   | GaAsP/GaP               | Hi. effi Red     |                   | 635                         | 45                       | 100 | 30 | 160    | 3.4   | 4.0                             | 5.6     | 10~20 | 6.0  | 16.0 |
| B-2709G-5  | G   | GaP                     | Green            |                   | 565                         | 30                       | 100 | 30 | 160    | 3.4   | 4.2                             | 5.6     | 10~20 | 6.0  | 14.0 |
| B-2709Y-5  | E,Y                                       | GaAsP/GaP               | Yellow           |                   | 585                         | 30                       | 100 | 30 | 160    | 3.4   | 4.2                             | 5.6     | 10~20 | 6.0  | 14.0 |
| B-2709SR-5 | R   | GaAlAs                  | Super Red        |                   | 660                         | 20                       | 60  | 20 | 160    | 3.4   | 3.6                             | 4.2     | 10~20 | 15.0 | 32.0 |
| B-2709EG   | W   | GaAsP/GaP               | Hi. effi Red     | Common            | 635                         | 45                       | 100 | 30 | 160    | 1.7   | 2.0                             | 2.8     | 10~20 | 6.0  | 16.0 |
|            |   | GaP                     | Green            | Anode             | 565                         | 30                       | 100 | 30 | 160    | 1.7   | 2.1                             | 2.8     | 10~20 | 6.0  | 14.0 |

Remark 1 : Selection of Surface color

R : Red Diffused

G : Green Diffused

Y : Yellow Diffused

E : Orange Diffused

W : White Diffused

### ◆ ABSOLUTE MAXIMUM RATING: (Ta=25°C)

|   |                       |
|---|-----------------------|
| Reverse Voltage   | : 5 Volt              |
| Reverse Current( Vr = 5V )                                | : 10 $\mu$ A          |
| Operating Temperature Range                               | : -40°C to +85°C      |
| Storage Temperature Range                                 | : -40°C to +100°C     |
| Lead Soldering Temperature<br>(1.6mm(1/16inch) from body) | : 260°C for 5 Seconds |

### ◆ ELECTRO-OPTICAL CHARACTERISTICS: (Ta=25°C)

| Para meter Description                 | Symbol          | Unit |
|--|-----------------|------|
| Spectral Line half-Width               | $\Delta\lambda$ | nm   |
| Power Dissipation                      | Pd              | mW   |
| Peak Forward Current (Duty 1/10,@KHz)  | If(Peak)        | mA   |
| Recommended Operation Current          | If(Rec)         | mA   |
| Average Luminous intensity (If = 10mA) | Iv              | mcd  |