

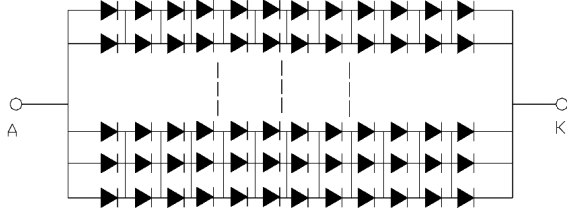
**Features**

Design flexibility – Available in a variety sizes and colors to suit most any application.  
 Durable Acrylic Panel – Offers sturdy mechanical support and device stability.  
 Long lifetimes – Typically 100k hours.  
 Low power consumption – Uses far less power than standard incandescent EL or CCFL light sources.

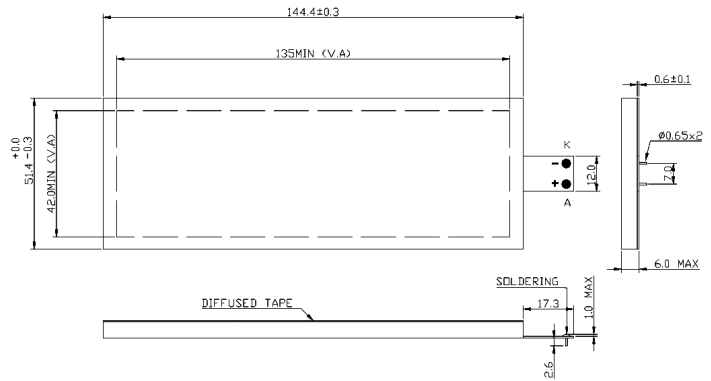
**Applications**

Backlighting LCD Displays; Panels and Symbols  
 Illumination of Large Surface Areas

**MTBL9311-XX**



LED numbers: 12x10=120  
 A: ANODE  
 K: CATHODE



**Electrical and Optical Characteristics (Ta=25°C)**

| Part Number | PWL nm<br>λP | Material | View Angle<br>2θ1/2 | Luminous Intensity<br>Iv |       |      |      | Forward Voltage<br>VF |      |      |      |
|-------------|--------------|----------|---------------------|--------------------------|-------|------|------|-----------------------|------|------|------|
|             |              |          |                     | min.                     | typ.  | max. | IF@  | min.                  | typ. | max. | IF@  |
| MTBL2311-G  | 570          | InGaAIP  | -                   | -                        | 50.00 | -    | 60mA | -                     | 2.00 | -    | 60mA |
| -           | nm           | -        | deg                 | mcd                      |       |      |      | -                     | V    |      | -    |

### Electrical and Optical Characteristics (Ta=25°C)

| Part Number | PWL nm<br>$\lambda_P$ | Material | View Angle<br>$2\theta_{1/2}$ | Luminous Intensity<br>$I_v$ |       |      |      | Forward Voltage<br>$V_F$ |      |      |      | Rev Current<br>$I_R$ |     |   |
|-------------|-----------------------|----------|-------------------------------|-----------------------------|-------|------|------|--------------------------|------|------|------|----------------------|-----|---|
|             |                       |          |                               | min.                        | typ.  | max. | IF@  | min.                     | typ. | max. | IF@  | max.                 | VR@ |   |
| MTBL2311-G  | 570                   | InGaAlP  | -                             | -                           | 50.00 | -    | 60mA | -                        | 2.00 | -    | 60mA | -                    | -   |   |
| -           | nm                    | -        | deg                           | mcd                         |       |      |      | -                        | V    |      |      | -                    | A   | - |

Contact Marktech at 800.984.5337 for detailed specifications and design assistance.

**MTBL2311-G Graphs**