



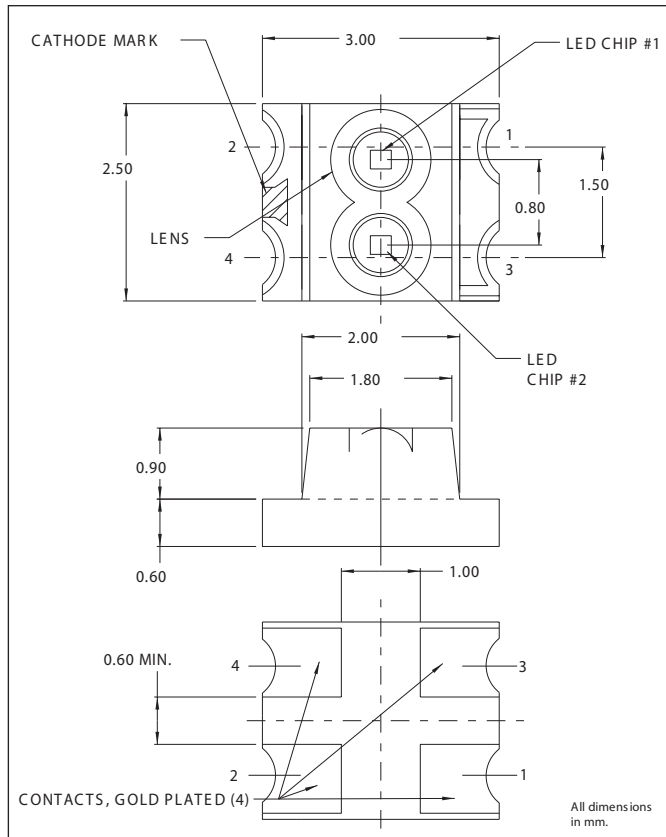
# Chicago Miniature Lighting, LLC

*Lighting the world since 1910*

7011X Series Bicolor SMT LEDs

## 7011X Series Bicolor SMT LEDs

### DESCRIPTION AND FEATURES



#### Color Combinations:

- Red/Yellow
- Red/Green
- Green/Yellow

#### Surface Mount Technology

- Tape and reel packaged for high-speed autoinsertion.
- Convection and vapor-phase reflow compatible.
- Compact form enables high density placement.
- Packaged 2500 pieces per reel.

#### Leading Edge LED Optoelectronic Performance

- Consistent high brightness.

#### Exceptional Reliability

- Stringent process controls assure quality.
- Extensive qualification testing to meet strictest requirements.
- Designed to permit easy post-reflow solder joint inspection.
- Solder pad geometry on page 1-X1.

### ELECTRO-OPTICAL CHARACTERISTICS AND RATINGS

| PART NUMBER                          | 7011X1/17    | 7011X1/5     | 7011X1/7     | 7011X5/7     |
|--------------------------------------|--------------|--------------|--------------|--------------|
| Output Color                         | Red/Yellow   | Red/Green    | Red/Yellow   | Green/Yellow |
| Diffused/Non-Diffused                | Non-Diffused | Non-Diffused | Non-Diffused | Non-Diffused |
| Package Color                        | Clear        | Clear        | Clear        | Clear        |
| Power Dissipation (mW)               | 60/75        | 60/75        | 60/75        | 75           |
| Peak Forward Current Max. (mA)       | 70           | 70           | 70           | 70           |
| Reverse Voltage (IR=100μA) (V)       | 4            | 4            | 4            | 4            |
| Operating temperature (°C)           | -30 to +85   | -30 to +85   | -30 to +85   | -30 to +85   |
| Storage Temperature (°C)             | -30 to +90   | -30 to +90   | -30 to +90   | -30 to +90   |
| Forward Voltage Typ. (IF=20mA)       | 1.75/2.2     | 1.7/2.1      | 1.7/2.1      | 2.1/2.2      |
| Forward Voltage Max. (IF=20mA)       | 2.0/2.5      | 2.0/2.5      | 2.0/2.5      | 2.5          |
| Continuous Forward Current Max. (mA) | 30           | 30           | 30           | 30           |
| Luminous Intensity Min. (IF=20mA)    | 6.0/3.0      | 6.0/3.0      | 6.0          | 3.0          |
| Luminous Intensity Max. (IF=20mA)    | 17.0/6.0     | 17.0/7.5     | 17.0/12.0    | 7.5/6.0      |
| Peak Wavelength (IF=20mA)            | 660/580      | 660/560      | 660/570      | 560/580      |
| Viewing Angle (degrees)              | 100          | 100          | 100          | 100          |
| Rated Current (mA)                   | 20           | 20           | 20           | 20           |
| Reverse Current Max. (VR=4V)         | 100          | 100          | 100          | 100          |

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Chicago Miniature Lighting, LLC reserves the right to make specification revisions that enhance the design and/or performance of the product