

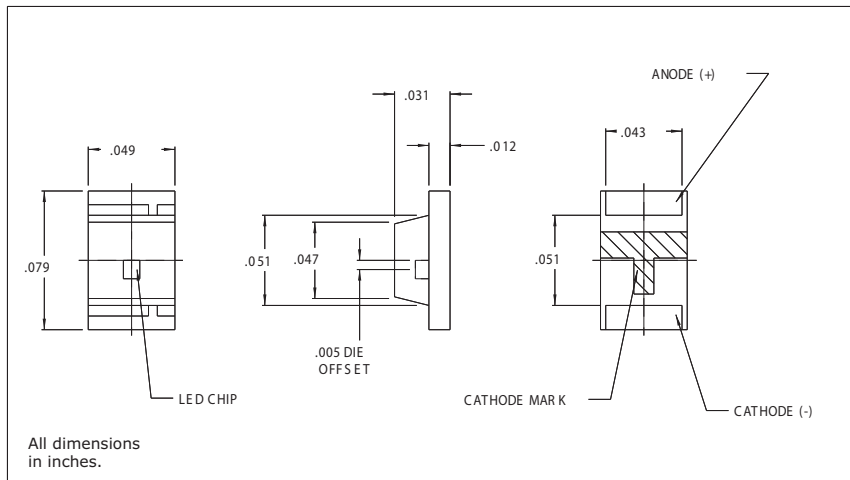


# Chicago Miniature Lighting, LLC

*Lighting the world since 1910*

## 7012X Series Bright★Chips™ High Brightness SMT LEDs 0805 Package Size

### DESCRIPTION AND FEATURES



- Premium brightness in miniature chip-type LED assemblies.
- Ideally suited for applications such as telecommunications, dataprocessing peripherals and networking units as replacements for through-hole products.
- Also ideal for backlighting or light pipe applications.
- Compact size: 2mm wide x 1.25mm deep x 1mm high
- 4000 pieces per reel
- Integral reflection cup maximizes output
- Compatible with full range of IR and vapor phase reflow processes, and conductive adhesives, to facilitate high-speed board loading.
- Packaged for automatic component placement in pocketed anti-static tape reels.
- Solderpad geometry on page 1-X2.

### ELECTRO-OPTICAL CHARACTERISTICS AND RATINGS

| PART NUMBER   | 7012X13    | 7012X5     | 7012X1     | 7012X7       |
|---|------------|------------|------------|--------------|
| Output Color  | Yellow     | Green      | Red        | Yellow/Green |
| Diffusion   | Diffused   | Diffused   | Diffused   | Diffused     |
| Package Color   | Clear      | Clear      | Clear      | Clear        |
| Test Current (mA)                                     | 20         | 20         | 20         | 20           |
| Forward Voltage Typ. (V)                              | 2.2        | 2.1        | 1.7        | 2.1          |
| Forward Voltage Max. (V)                              | 2.5        | 2.5        | 2.0        | 2.5          |
| Luminous Intensity Min. (mcd)                         | 2.2        | 3.8        | 7.0        | 7.0          |
| Luminous Intensity Typ. (mcd)                         | 3.7        | 6.4        | 11.7       | 11.7         |
| Luminous Intensity Max. (mcd)                         | -          | -          | -          | -            |
| Peak Wavelength (nm)                                  | 580        | 560        | 660        | 570          |
| Viewing Angle 2θ 1/2 (degrees)                        | -          | -          | -          | -            |
| Power Dissipation (mW)                                | 62.5       | 62.5       | 50         | 62.5         |
| Operating Temperature (°C)                            | -40 to +85 | -40 to +85 | -40 to +85 | -40 to +85   |
| Storage Temperature (°C)                              | -40 to +90 | -40 to +90 | -40 to +90 | -40 to +90   |
| Peak Forward Current Max. (1μs @ 10% duty cycle) (mA) | 60         | 60         | 60         | 60           |
| Reverse Voltage (IR=100μA) (V)                        | 4          | 4          | 4          | 4            |
| Lead Solder Time @ 260°C                              | 5          | 5          | 5          | 5            |

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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

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