



# Chicago Miniature Lighting, LLC

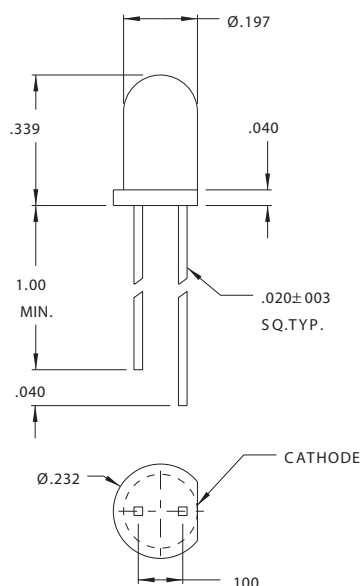
*Lighting the world since 1910*

T-1 3/4 Super Brite LED Lamps

## T-1 3/4 Super Brite LED Lamps

### DESCRIPTION AND FEATURES

All dimensions in inches.



These T-1 3/4 LED lamps, available in both diffused and non-diffused packages, provide exceptional luminous intensity when compared to conventional LED lamps. Luminous intensities as high as 2000 millicandela are available making these lamps excellent indicators in high ambient lighting conditions. These lamps utilize improved GaP and GaAIAs technologies.

### ELECTRO-OPTICAL CHARACTERISTICS

| Part Number     | Emitted Color | Lens Color | Package Type | Luminous Intensity |            | Forward Voltage |          | Viewing Angle (degrees) | Peak Wavelength (nm) |
|-----------------|---------------|------------|--------------|--------------------|------------|-----------------|----------|-------------------------|----------------------|
|                 |               |            |              | Min. (mcd)         | Typ. (mcd) | Typ. (V)        | Max. (V) |                         |                      |
| CMD333UGD       | Green         | Green      | Diffused     | 100.0              | 160.0      | 2.1             | 2.8      | 40                      | 565                  |
| CMD333SRD/L2    | Red           | Red        | Diffused     | 63.0               | 100.0      | 1.7             | 2.4      | 40                      | 660                  |
| CMD333HRD-1     | Red           | Red        | Diffused     | 100.0              | 180.0      | 1.7             | 2.4      | 40                      | 660                  |
| CMD333HRD-3     | Red           | Red        | Diffused     | 160.0              | 300.0      | 1.7             | 2.4      | 40                      | 660                  |
| CMD333URD/S 207 | Red           | Red        | Diffused     | 250.0              | 400.0      | 1.7             | 2.4      | 40                      | 660                  |
| CMD333UGC       | Green         | Clear      | Non-Diffused | 250.0              | 800.0      | 2.1             | 2.8      | 24                      | 565                  |
| CMD333HRC-6     | Red           | Clear      | Non-Diffused | 250.0              | 600.0      | 1.7             | 2.4      | 24                      | 660                  |
| CMD333URC-1     | Red           | Clear      | Non-Diffused | 630.0              | 1200.0     | 1.7             | 2.4      | 24                      | 660                  |
| CMD333URC-2     | Red           | Clear      | Non-Diffused | 1000.0             | 2000.0     | 1.7             | 2.4      | 24                      | 660                  |

### ABSOLUTE MAXIMUM RATINGS

|                                                   | Red             | Green           | Units   |
|---------------------------------------------------|-----------------|-----------------|---------|
| Power Dissipation.....                            | 110.....        | 100.....        | mW      |
| Operating/Storage Temperature.....                | -40 to +85..... | -40 to +85..... | °C      |
| Peak Forward Current (1µs @ 0.3% duty cycle)..... | 150.....        | 150.....        | mA      |
| Reverse Voltage (IR=100µA).....                   | 5.0.....        | 5.0.....        | V       |
| Forward Current.....                              | 30.....         | 30.....         | mA      |
| Lead Solder Time at 260°C.....                    | 5.....          | 5.....          | seconds |

147 Central Avenue  
Hackensack, NJ 07601  
Phone: (201) 489-8989  
Fax: (201) 489-6911

18703 Dix Toledo Road  
Brownstown, MI 48193

Saret Zone Franca, Edificio B  
Alajuela Costa Rica

E-mail: sales@chml.com • Web Site: www.chml.com

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