



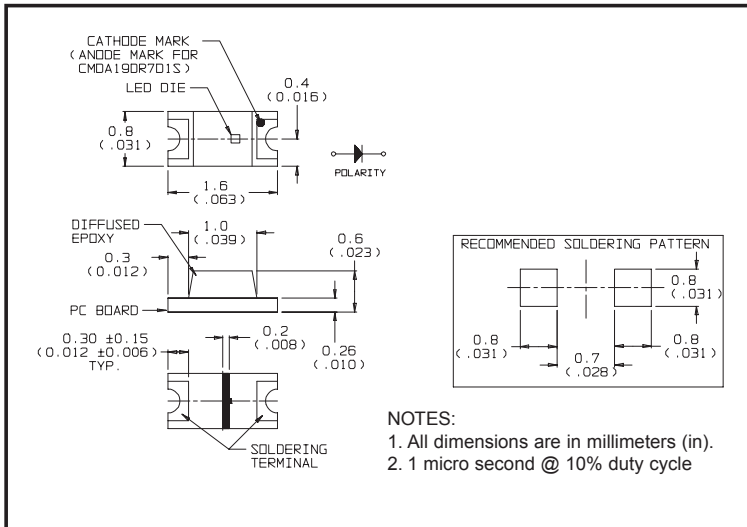
# Chicago Miniature Lighting, LLC

*Lighting the world since 1910*

CMDA19 Series 0603 Package Size  
Low Profile Surface Mount LED

## CMDA19 Series 0603 Package Size Low Profile Surface Mount LED

### DESCRIPTION AND FEATURES



#### Features

- Small size
- Industry standard 0603 Footprint
- Compatible with IR solder profiles
- Ideal for use with Light Pipes
- Diffused optics
- Top emitting
- Available in 8 mm tape on 7" diameter reels
- Packaged 4,000 pieces per reel

#### Applications

- Keypad backlighting
- Push-button backlighting
- LCD backlighting
- Symbol backlighting
- Front panel indicator

### ELECTRO-OPTICAL CHARACTERISTICS AND RATINGS

| Part Number  | Output Color | Diffusion | Package Color | Test Current (mA) | Forward Voltage Typ. (V) | Forward Voltage Max. Typ. (V) | Luminous Intensity Min. (mcd) | Luminous Intensity Typ. (mcd) | Peak Wavelength (nm) | Viewing Angle (Degrees) |
|--------------|--------------|-----------|---------------|-------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|
| CMDA19AY7D1S | Green        | Diffused  | Clear         | 20                | 2.2                      | 2.6                           | 4.0                           | 15                            | 570                  | 170                     |
| CMDA19CY7D1S | Yellow       | Diffused  | Clear         | 20                | 2.1                      | 2.6                           | 2.5                           | 8                             | 589                  | 170                     |
| CMDA19AA7D1S | Orange       | Diffused  | Clear         | 20                | 2.2                      | 2.6                           | 2.5                           | 8                             | 605                  | 170                     |
| CMDA19BR7D1S | HE Red       | Diffused  | Clear         | 20                | 2.1                      | 2.6                           | 2.5                           | 10                            | 630                  | 170                     |
| CMDA19DR7D1S | Red          | Diffused  | Clear         | 20                | 1.8                      | 2.6                           | 6.3                           | 17                            | 660                  | 170                     |

### ABSOLUTE MAXIMUM RATINGS TO = 25 ° C

| Part Number | Power Dissipation (mW) | Operating Temperature (°C) | Storage Temperature (°C) | Peak Forward Current Max. (See note 2) (mA) | Reverse Voltage (IR = 100 mA) (V) | Lead Solder Time at 230°C (Seconds) |
|-------------|------------------------|----------------------------|--------------------------|---------------------------------------------|-----------------------------------|-------------------------------------|
| AY          | 52                     | -30 to +85                 | -40 to +85               | 100                                         | 5                                 | 10                                  |
| CY          | 52                     | -30 to +85                 | -40 to +85               | 100                                         | 5                                 | 10                                  |
| AA          | 52                     | -30 to +85                 | -40 to +85               | 100                                         | 5                                 | 10                                  |
| BR          | 52                     | -30 to +85                 | -40 to +85               | 100                                         | 5                                 | 10                                  |
| DR          | 65                     | -30 to +85                 | -40 to +85               | 100                                         | 5                                 | 10                                  |

The model numbers listed above are standard off the shelf parts. For the user who may have a requirement calling for various color/electrical specifications, a part number can be determined by calling the factory.

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