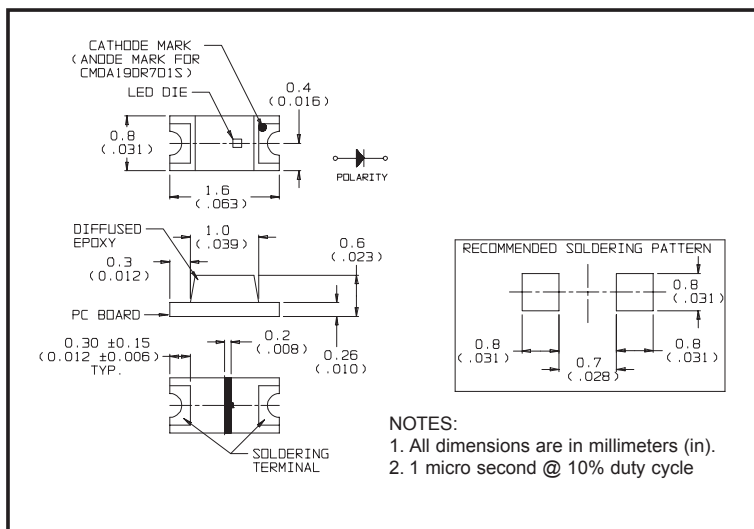


## CMDA19 Series 0603 Package Size Low Profile Surface Mount LED

### 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.