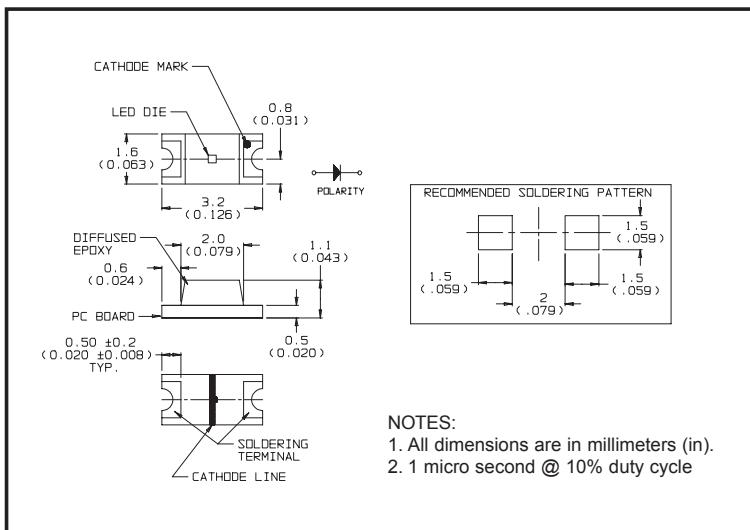


## CMDA2 Series HIGH BRIGHTNESS 1206 Package Size Surface Mount LED Description and Features



### Features

- High brightness
- Small size
- Industry standard 1206 Footprint
- Diffused optics
- Top emitting
- Compatible with IR solder profiles
- Ideal for use with Light Pipes
- Available in 8 mm tape on 7" diameter reel
- Packaged 3,000 pieces per reel

### Applications

- LCD backlighting
- Push button backlighting
- Front panel indicator
- Symbol indicator
- Microdisplays
- Small message panel signage

CAUTION: CMDA2CB and CMDA2AG are Class 1 ESD sensitive per MIL-STD-1686. Please observe appropriate precautions during handling and processing.

## 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) |
|-------------|--------------|-----------|---------------|-------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|
| CMDA2BY7D1S | Green        | Diffused  | White         | 20                | 2.1                      | 2.6                           | 16                            | 50                            | 570                  | 170                     |
| CMDA2DY7D1S | Amber        | Diffused  | White         | 20                | 1.9                      | 2.4                           | 25                            | 90                            | 595                  | 170                     |
| CMDA2AR7D1S | Red          | Diffused  | White         | 20                | 1.9                      | 2.4                           | 25                            | 90                            | 637                  | 170                     |
| CMDA2BA7D1S | Orange       | Diffused  | White         | 20                | 1.9                      | 2.4                           | 25                            | 90                            | 609                  | 170                     |
| CMDA2CB7D1S | Blue         | Diffused  | White         | 20                | 3.4                      | 3.9                           | 16                            | 55                            | 469                  | 140                     |
| CMDA2AG7D1S | Green        | Diffused  | White         | 20                | 3.4                      | 3.9                           | 40                            | 145                           | 520                  | 140                     |

## 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) |
|-------------|------------------------|----------------------------|--------------------------|---|-----------------------------------|-------------------------------------|
| BY          | 52                     | -30 to +85                 | -40 to +85               | -   | 5                                 | 10                                  |
| DY          | 75                     | -30 to +85                 | -40 to +85               | 100   | 5                                 | 10                                  |
| AR          | 75                     | -30 to +85                 | -40 to +85               | 100   | 5                                 | 10                                  |
| BA          | 75                     | -30 to +85                 | -40 to +85               | 100   | 5                                 | 10                                  |
| CB          | 98                     | -30 to +85                 | -40 to +85               | 50  | 5                                 | 10                                  |
| AG          | 98                     | -30 to +85                 | -40 to +85               | 50  | 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.