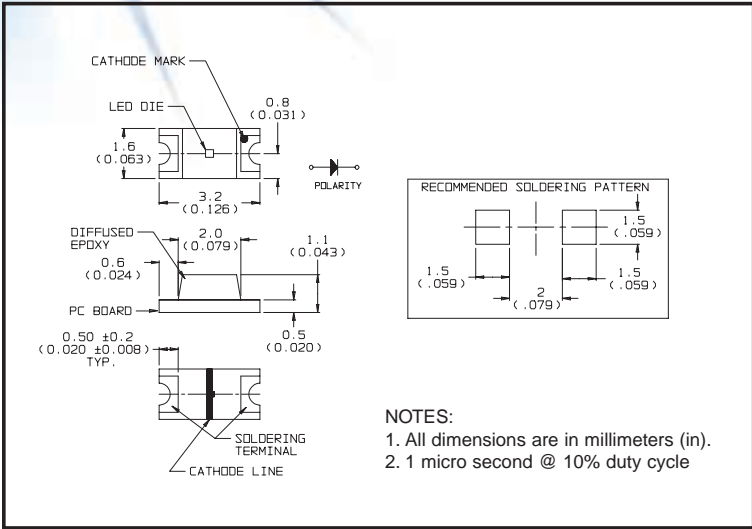


**CMDA2 Series HIGH BRIGHTNESS 1206 Package Size Surface Mount LED**

**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.

**NOTES:**  
 1. All dimensions are in millimeters (in).  
 2. 1 micro second @ 10% duty cycle

**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.