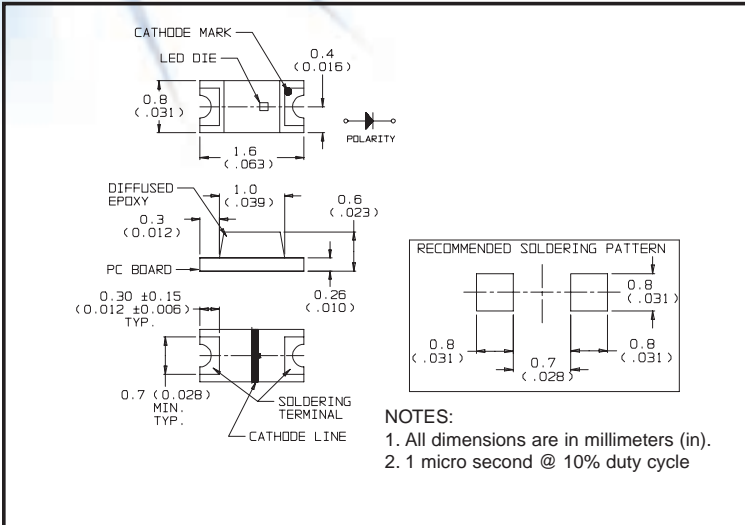


CMDA19 Series HIGH BRIGHTNESS 0603 Package Size Low Profile Surface Mount LED

DESCRIPTION AND FEATURES



Features

- High brightness
- Small size
- Industrial standard 0603 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 4,000 pieces per reel

Applications

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

CAUTION:

CMDA19AG and CMDA19CB 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) |
|--------------|--------------|-----------|---------------|-------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|
| CMDA19CB7D1S | Blue | Diffused | Clear | 20 | 3.4 | 3.9 | 16 | 55 | 469 | 140 |
| CMDA19AG7D1S | Green | Diffused | Clear | 20 | 3.4 | 3.9 | 40 | 145 | 520 | 140 |
| CMDA19DY7D1S | Amber | Diffused | Clear | 20 | 1.9 | 2.4 | 25 | 90 | 595 | 170 |
| CMDA19BA7D1S | Orange | Diffused | Clear | 20 | 1.9 | 2.4 | 25 | 90 | 609 | 170 |
| CMDA19AR7D1S | Red | Diffused | Clear | 20 | 1.9 | 2.4 | 25 | 90 | 637 | 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) |
|-------------|------------------------|----------------------------|--------------------------|---|-----------------------------------|-------------------------------------|
| CB | 98 | -30 to +85 | -40 to +85 | 50 | 5 | 10 |
| AG | 98 | -30 to +85 | -40 to +85 | 50 | 5 | 10 |
| DY | 75 | -30 to +85 | -40 to +85 | 100 | 5 | 10 |
| BA | 75 | -30 to +85 | -40 to +85 | 100 | 5 | 10 |
| AR | 75 | -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.