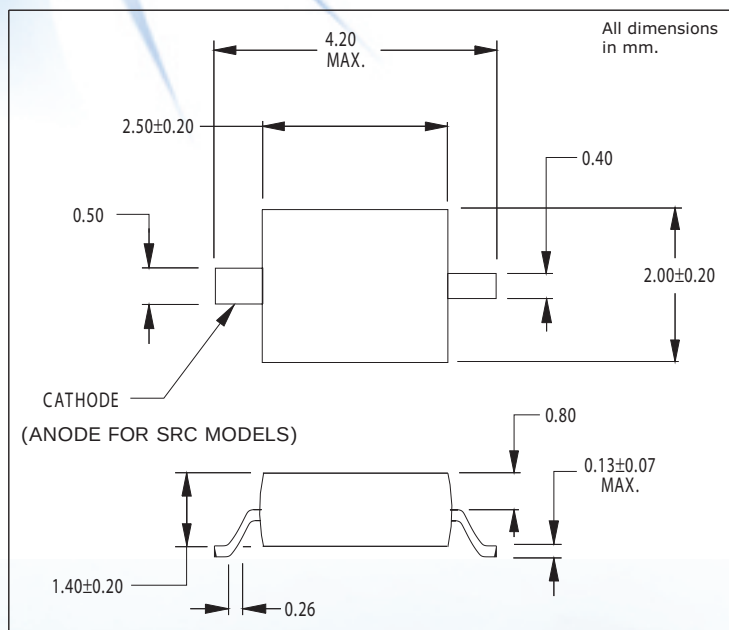


## CMD28-21 Series SMT LEDs

### DESCRIPTION AND FEATURES



#### Surface Mount Technology

- Tape and reel packaged for high-speed autoinsertion.
- Convection and vapor-phase reflow compatible.
- Compactform enables high density placement.
- Gull Wing lead form
- Packaged 2000 pieces per reel.

#### Leading Edge LED Optoelectronic Performance

- Consistent high brightness.
- Low current types available.

#### Exceptional Reliability

- Stringent process controls assure quality.
- Extensive qualification testing to meet strictest requirements.
- Designed to permit easy post-reflow solder joint inspection.

### ELECTRO-OPTICAL CHARACTERISTICS AND RATINGS

| PART NUMBER                                           | CMD28-21VGC/TR8 | CMD28-21VYC/TR8 | CMD28-21VRC/TR8 | CMD28-21SRC/TR8 | CMD28-21VRC/TR8/T1 | CMD28-21VYC/TR8/T1 | CMD28-21VGC/TR8/T1 | CMD28-21SRC/TR8/T1 |
|-------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|--------------------|--------------------|--------------------|--------------------|
| Output Color                                          | Green           | Yellow          | Red             | Red             | H.E. Red           | Yellow             | Green              | Red                |
| Package Type                                          | Single          | Single          | Single          | Single          | Single             | Single             | Single             | Single             |
| Package Color                                         | Clear           | Clear           | Clear           | Clear           | Clear              | Clear              | Clear              | Clear              |
| Test Current (mA)                                     | 20              | 20              | 20              | 20              | 1                  | 1                  | 1                  | 1                  |
| Forward Voltage Typ. (V)                              | 2.1             | 2.0             | 2.0             | 1.7             | 2.0                | 2.1                | 2.1                | 1.7                |
| Forward Voltage Max. (V)                              | 2.8             | 2.8             | 2.8             | 2.4             | 2.8                | 2.8                | 2.8                | 2.4                |
| Luminous Intensity Min. (mcd)                         | 1.0             | 3.5             | 1.5             | 11.0            | 0.1                | 0.25               | 0.1                | 1.0                |
| Luminous Intensity Typ. (mcd)                         | 5.5             | 6.0             | 3.0             | 17.0            | 0.16               | 0.4                | 0.16               | 1.6                |
| Luminous Intensity Max. (mcd)                         | -               | -               | -               | -               | -                  | -                  | -                  | -                  |
| Peak Wavelength (nm)                                  | 570             | 585             | 640             | 660             | 640                | 585                | 570                | 660                |
| Viewing Angle 2θ 1/2 (degrees)                        | 150             | 150             | 150             | 150             | 150                | 150                | 150                | 150                |
| Power Dissipation (mW)                                | 105             | 105             | 100             | 100             | 105                | 105                | 105                | 100                |
| Operating Temperature (°C)                            | -40 to +85      | -40 to +85      | -40 to +85      | -40 to +85      | -40 to +85         | -40 to +85         | -40 to +85         | -40 to +85         |
| Storage Temperature (°C)                              | -40 to +85      | -40 to +85      | -40 to +85      | -40 to +85      | -40 to +85         | -40 to +85         | -40 to +85         | -40 to +85         |
| Peak Forward Current Max. (1 s @ 10% duty cycle) (mA) | 150             | 150             | 150             | 150             | 150                | 150                | 150                | 150                |
| Reverse Voltage (IR=100 A) (V)                        | 5.0             | 5.0             | 5.0             | 5.0             | 5.0                | 5.0                | 5.0                | 5.0                |
| Lead Solder Time @ 260°C                              | 5               | 5               | 5               | 5               | 5                  | 5                  | 5                  | 5                  |

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