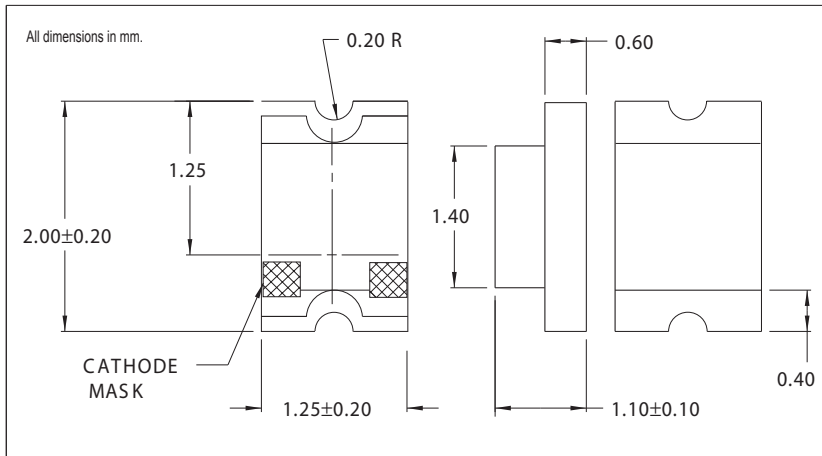


## CMD17-21 Series SMT LEDs 0805 Package Size

### Description and Features



#### Surface Mount Technology

- Tape and reel packaged for high-speed autoinsertion.
- Convection and vapor-phase reflow compatible.
- Compact form enables high density placement.
- Packaged 2000 pieces per reel.
- RoHS Compliant

#### Leading Edge LED Optoelectronic Performance

- Consistent high brightness.
- Bi-color available.

#### Exceptional Reliability

- Stringent process controls assure quality.
- Extensive qualification testing to meet strictest requirements.
- Designed to permit easy post-reflow solder joint inspection.
- Refer to "Solder Pad Geometry 3.pdf"

## Electro-Optical Characteristics

| Part Number     | Emitted Color | Lens Color      | Luminous Intensity |            | Forward Voltage |          | Test Current (mA) | Peak Wavelength (nm) | View Angle (degrees) |
|-----------------|---------------|-----------------|--------------------|------------|-----------------|----------|-------------------|----------------------|----------------------|
|                 |               |                 | Min. (mcd)         | Typ. (mcd) | Typ. (V)        | Max. (V) |                   |                      |                      |
| CMD17-21SRC/TR8 | Super Red     | Clear           | 10.0               | 21.0       | 1.7             | 2.4      | 20                | 660                  | 140                  |
| CMD17-21VRC/TR8 | H.E. Red      | Clear           | 4.5                | 13.0       | 2.0             | 2.8      | 20                | 640                  | 140                  |
| CMD17-21VYC/TR8 | Yellow        | Clear           | 5.0                | 12.0       | 2.0             | 2.8      | 20                | 585                  | 140                  |
| CMD17-21VGC/TR8 | Green         | Clear           | 6.0                | 10.0       | 2.1             | 2.8      | 20                | 570                  | 140                  |
| CMD17-21VRD/TR8 | H.E. Red      | Red Diffused    | 3.0                | 6.0        | 2.0             | 2.8      | 20                | 640                  | 140                  |
| CMD17-21VYD/TR8 | Yellow        | Yellow Diffused | 2.5                | 4.0        | 2.0             | 2.8      | 20                | 585                  | 140                  |
| CMD17-21VGD/TR8 | Green         | Green Diffused  | 4.0                | 7.0        | 2.1             | 2.8      | 20                | 570                  | 140                  |
| CMD17-21UBC/TR8 | Blue          | Clear           | 16.0               | 27.0       | 4.5             | 5.5      | 20                | 430                  | 120                  |

## Absolute Maximum Ratings

|                                                        | Red        | Yellow     | Green      | Units   |
|--------------------------------------------------------|------------|------------|------------|---------|
| Power Dissipation.....                                 | 100        | 105        | 105        | mW      |
| Operating/Storage Temperature.....                     | -40 to +85 | -40 to +85 | -40 to +85 | °C      |
| Peak Forward Current (1 $\mu$ s @ 10% duty cycle)..... | 150        | 150        | 150        | mA      |
| Reverse Voltage (IR=100 $\mu$ A).....                  | 5.0        | 5.0        | 5.0        | V       |
| Lead Solder Time @ 260°C.....                          | 5          | 5          | 5          | seconds |
| Average Forward Current.....                           | 30         | 30         | 30         | mA      |