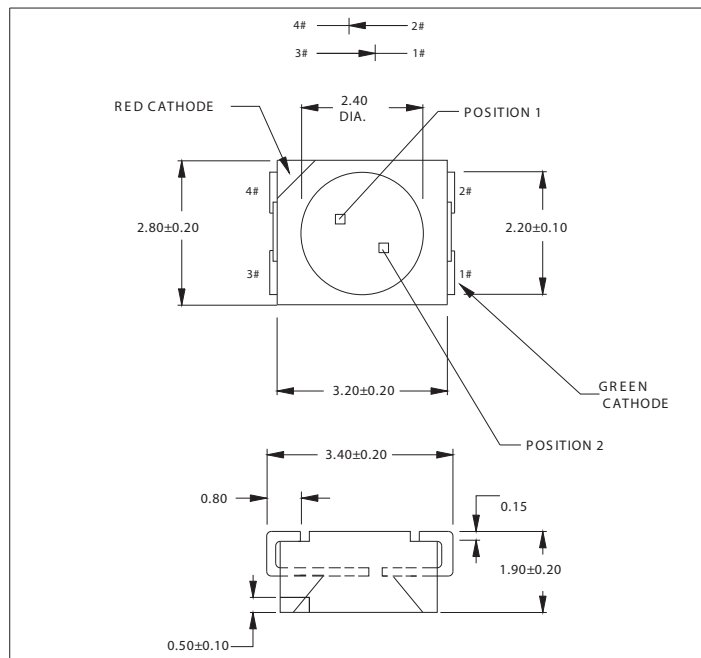


CMD67-21 SERIES SMT LEDs

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.

Leading Edge LED Optoelectronic Performance

- Consistent high brightness.
- Integral lensing for narrow angle light dispersion.
- 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.
- Solder pad geometry on page 1-X1.

ELECTRO-OPTICAL CHARACTERISTICS AND RATINGS

| Part Number | Emitted Color | Lens Color | Luminous Intensity | | Forward Voltage | | Polarity Mark Indicates | Peak Wavelength (nm) | View Angle (degrees) |
|------------------|---------------|------------|--------------------|------------|-----------------|----------|-------------------------|----------------------|----------------------|
| | | | Min. (mcd) | Typ. (mcd) | Typ. (V) | Max. (V) | | | |
| CMD67-21VGC/TR8 | Green | Clear | 15.0 | 25.0 | 2.1 | 2.8 | Cathode | 570 | 120 |
| CMD67-21VYC/TR8 | Yellow | Clear | 6.0 | 10.0 | 2.0 | 2.8 | Cathode | 585 | 120 |
| CMD67-21VRC/TR8 | H.E. Red | Clear | 6.0 | 10.0 | 2.0 | 2.8 | Cathode | 640 | 120 |
| CMD67-21SRC/TR8 | Bright Red | Clear | 25.0 | 40.0 | 1.7 | 2.4 | Anode | 660 | 120 |
| CMD67-21URC/TR8 | Bright Red | Clear | 36.0 | 62.0 | 1.7 | 2.4 | Anode | 660 | 120 |
| CMD67-21UBC/TR8 | Blue | Clear | 59.0 | 98.0 | 4.5 | 5.5 | Cathode | 430 | 120 |
| CMD67-21UYC/TR8 | Super Yellow | Clear | 65.0 | 85.0 | 2.1 | 2.8 | Cathode | 590 | 120 |
| CMD67-21USOC/TR8 | Super Orange | Clear | 70.0 | 90.0 | 2.1 | 2.8 | Cathode | 620 | 120 |

ABSOLUTE MAXIMUM RATINGS

| | Green | H.E. Red | Yellow | Bright Red | Units |
|--|-----------------|-----------------|-----------------|-----------------|---------|
| Power Dissipation..... | 105..... | 120..... | 105..... | 100..... | mW |
| Storage/Operating Temperature..... | -40 to +85..... | -40 to +85..... | -40 to +85..... | -40 to +85..... | °C |
| Peak Forward Current (1µs @ 10% duty cycle)..... | 150..... | 150..... | 150..... | 150..... | mA |
| Reverse Voltage (IR=100µA)..... | 5.0..... | 5.0..... | 5.0..... | 5.0..... | V |
| Lead Solder Time @ 260°C..... | 5..... | 5..... | 5..... | 5..... | Seconds |
| Average Forward Current..... | 25..... | 30..... | 30..... | 30..... | mA |

Chicago Miniature Lamp reserves the right to make specification revisions that enhance the design and/or performance of the product