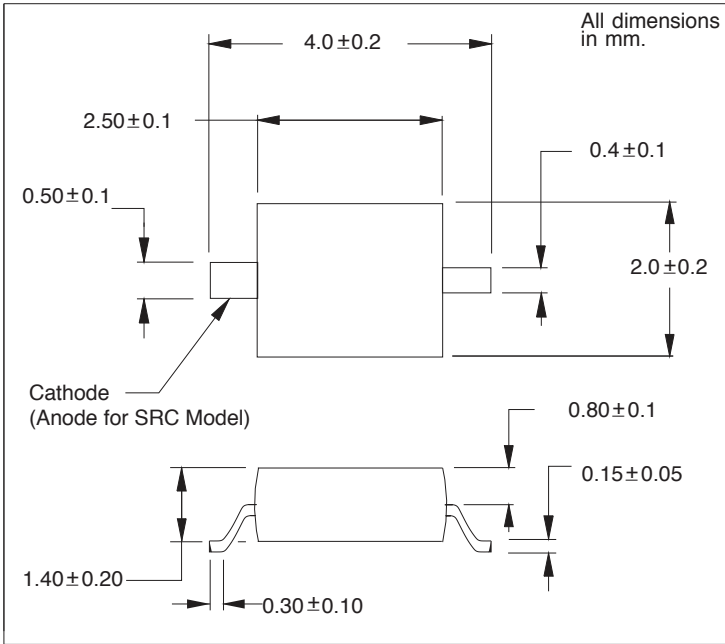




CMD28-21 Series SMT LEDs

CMD28-21 Series features a SMD LED with a high intensity light output and a clear lens

Descriptions and Features



Surface Mount Technology

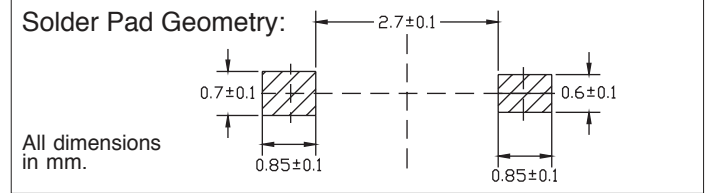
- Tape and reel packaged for high-speed automatic insertion.
- Convection and vapor-phase reflow compatible.
- Compact form enables high density placement.
- Packaged 2000 pieces per reel.

Leading Edge LED Optoelectronic Performance

- Consistent high brightness.
- 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 |
|---------------------------------------------|-----------------|-----------------|-----------------|
| Output Color | Green | Yellow | Red |
| Package Type | Single | Single | Single |
| Lens Color | Clear | Clear | Clear |
| Forward Current (mA) | 30 | 25 | 30 |
| Forward Voltage Typ.(V) | 2.1 | 2.0 | 2.0 |
| Forward Voltage Max.(V) | 2.4 | 2.4 | 2.4 |
| Luminous Intensity Min.(mcd) | 1.0 | 21 | 1.5 |
| Luminous Intensity Typ.(mcd) | 5.5 | 33 | 3.5 |
| Luminous Intensity Max.(mcd) | - | - | - |
| Peak Wavelength Typ (nm) | 570 | 591 | 640 |
| Viewing Angle 2θ 1/2 (degrees) | 150 | 150 | 150 |
| Power Dissipation (mW) | 100 | 60 | 100 |
| Operating Temperature(°C) | -40 to +85 | -40 to +85 | -40 to +85 |
| Storage Temperature(°C) | -40 to +100 | -40 to +90 | -40 to +100 |
| Peak Forward Current (Duty 1/10@ 1KHz) (mA) | 160 | 60 | 160 |
| Reverse Voltage (V) | 5.0 | 5.0 | 5.0 |
| Lead Solder Time@260°C \pm 5°C (sec.) | 5 | 10 | 5 |

Product Specifications

CMD28-21VGC/TR8

