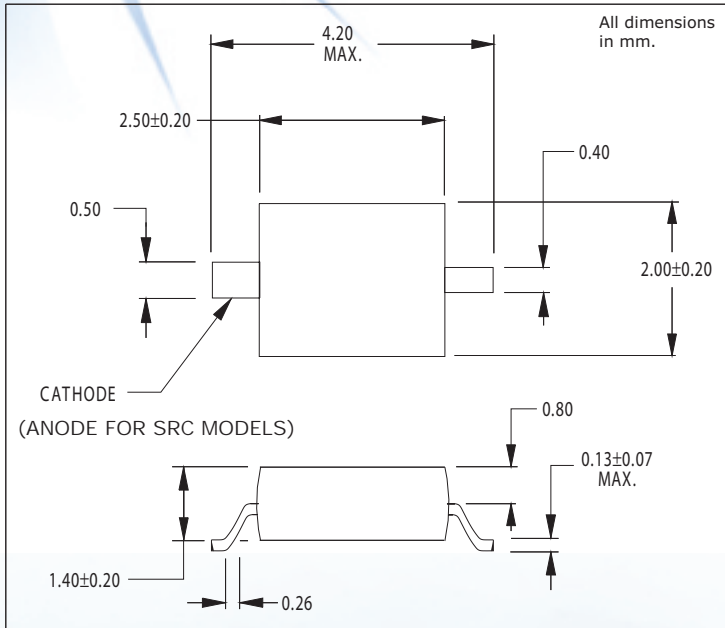


CMD28-21 Series SMT LEDs

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 |