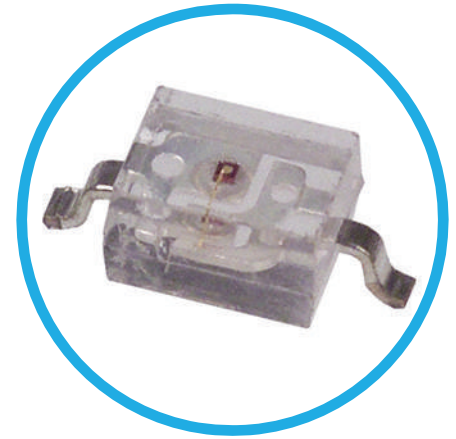


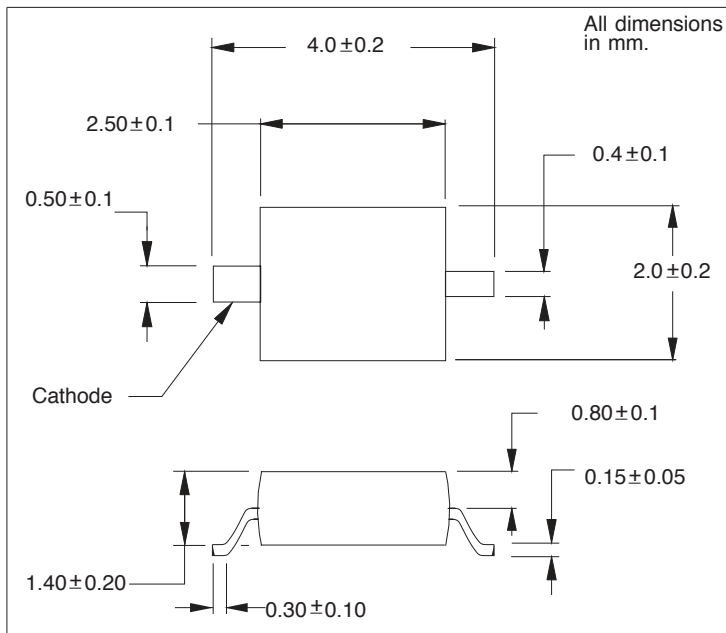


CMD28-21 Series SMT LEDs



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

Descriptions and Features



Surface Mount Technology

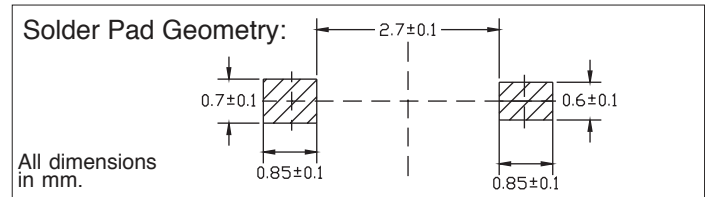
- Tape and reel packaged for high-speed automatic insertion.
- Convection and vapor-phase reflow compatible.
- Compact form enables high density placement.
- Packaged 2000 pieces per reel.

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	30	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	3.5	1.5
Luminous Intensity Typ.(mcd)	5.5	6.0	3.5
Luminous Intensity Max.(mcd)	-	-	-
Peak Wavelength Typ (nm)	570	585	640
Viewing Angle 2θ 1/2 (degrees)	150	150	150
Power Dissipation (mW)	100	100	100
Operating Temperature(°C)	-40 to +85	-40 to +85	-40 to +85
Storage Temperature(°C)	-40 to +100	-40 to +100	-40 to +100
Peak Forward Current (Duty 1/10@ 1KHz) (mA)	160	160	160
Reverse Voltage (V)	5.0	5.0	5.0
Lead Solder Time@260°C ±5°C (sec.)	5	5	5