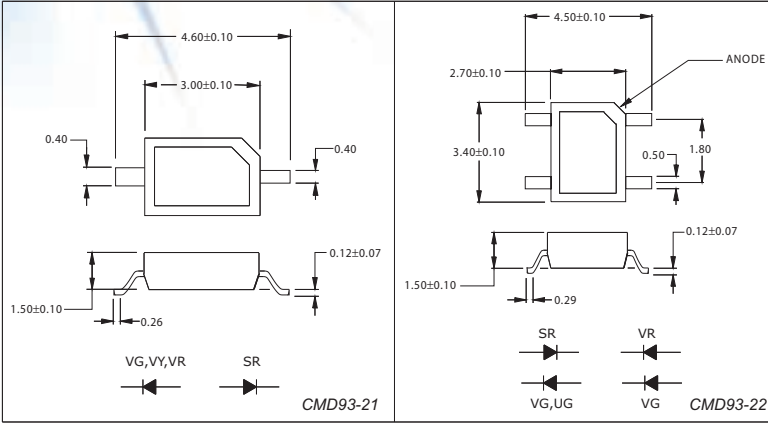


**CMD93-21 & 22 Series SMT LEDs**  
**DESCRIPTION AND FEATURES**



All dimensions in mm.

- Surface Mount Technology**
- Tape and reel packaged for high-speed autoinsertion.
  - Convection and vapor-phase reflow compatible.
  - Compact form enables high density placement.
  - 93-21 2000 pieces per reel
  - 93-22 1000 pieces per reel

- Leading Edge LED Optoelectronic Performance**
- Consistent high brightness.
  - Bi-color available.
  - Gull wing lead form.

- 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**

Part Number	Emitted Color	Lens Color	Package Type	Luminous Intensity		Forward Voltage		Rated Current (mA)	Peak Wavelength (nm)	View Angle (degrees)
				Min. (mcd)	Typ. (mcd)	Typ. (V)	Max. (V)			
CMD93-21VGC/TR8	Green	Clear	Single	15.0	25.0	2.1	2.8	20	570	130
CMD93-21VYC/TR8	Yellow	Clear	Single	7.0	12.0	2.0	2.8	20	585	130
CMD93-21VRC/TR8	Red	Clear	Single	7.0	12.0	2.0	2.8	20	640	130
CMD93-21SRC/TR8	Red	Clear	Single	25.0	40.0	1.7	2.4	20	660	130
CMD93-22VGC/TR8	Red	Clear	Dual	7.0	12.0	2.0	2.8	20	640	125
	Green	Clear	Dual	12.0	20.0	2.1	2.8	20	570	125
CMD93-22SRVGC/TR8	Red	Clear	Dual	24.0	40.0	1.7	2.4	20	660	125
	Green	Clear	Dual	12.0	20.0	2.1	2.8	20	570	125
CMD93-22SRUGC/TR8	Red	Clear	Dual	24.0	40.0	1.7	2.4	20	660	125
	Green	Clear	Dual	13.5	20.0	2.1	2.8	20	565	125

**ABSOLUTE MAXIMUM RATINGS**

	Green	Yellow	Red	Units
Power Dissipation.....	105	105	100	mW
Storage Temperature.....	-25 to +90	-25 to +90	-25 to +90	°C
Operating Temperature.....	-25 to +80	-25 to +80	-25 to +80	°C
Peak Forward Current (1µs @ 10% duty cycle).....	150	150	150	mA
Reverse Voltage (IR=100µA).....	5.0	5.0	5.0	V
Lead Solder Time @ 260°C.....	10	5	5	Seconds
Forward Current.....	25	30	30	mA