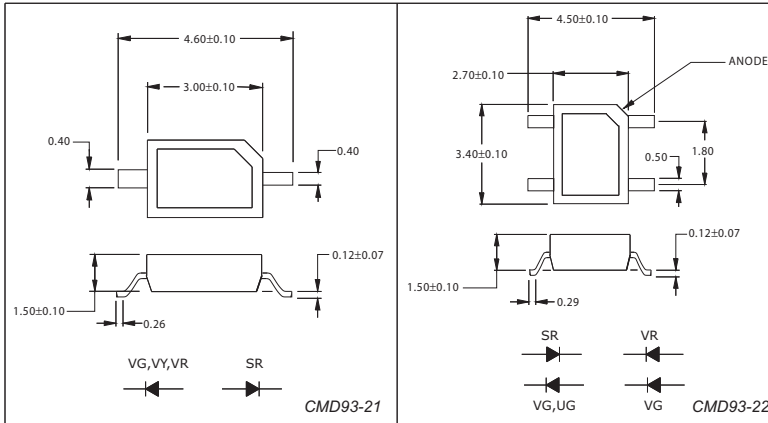




CMD93-21 & 22 Series SMT LEDs

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 |

147 Central Avenue
Hackensack, NJ 07601
Phone: (201) 489-8989
Fax: (201) 489-6911

18703 Dix Toledo Road
Brownstown, MI 48193

Saret Zone Franca, Edificio B
Alajuela Costa Rica

E-mail: sales@chml.com • Web Site: www.chml.com

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[CMD9321VGCTR8-S](#) [CMD93-22VRVGC/8-100](#) [CMD9322SRUGCTR8](#) [CMD9322SRVGCR8S](#)