CERLED®

Ceramic Chip SMD

SMD - Wide-Viewing Angle CR 10 SG standard green



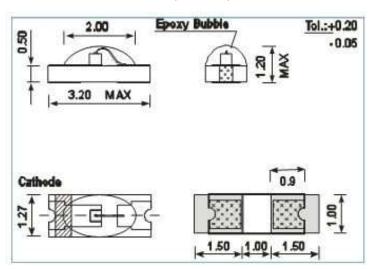
Description

The solder pads provide an excellent heat sink. For multi-chip arrays just choose 2 or more CERLEDs and mount them side by side or even antiparallel. Ideal for back - light applications. Small true chip - LED to build custom configurations.

Available on special order in 8 mm blister tape or solid strips of up to 12 pcs with a true pitch of 1.27 mm.

The CR 10 SG has a clear green coloured epoxy lens.

Also available with diffused lens (CR 12 SG).



Features and Benefits

- Solid state ceramic chip
- Surface mounting device
- High thermal conductivity
- Superior light uniformity
- ➤ End to end and side - to - side stackable down to a pitch of 1.3 mm
- Solder pads conform with Mil-Std 883 B



Maximum Ratings at 25° C 130 mW Power dissipation Ptot 2.4 mW / ° C Derating linear Peak forward current Irsм (10 µs) 800 mA Continuous forward current 50 mA lF Junction temperature 120° C Tj Storage temperature -25° C to 120° C Tst -25° C to 80° C Operating temperature Тор 240° C Soldering temperature Tsold (10 s)

Adequate heat sink is required. Derating must be observed to maintain junction temperature below maximum. Please note our recommended solder profile at www.excelitas.com.

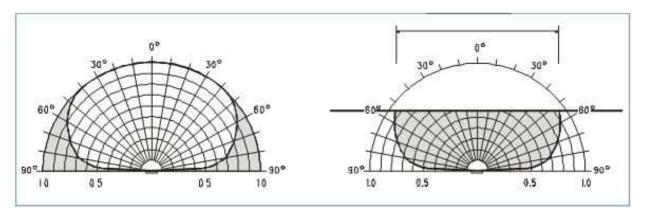
Optical and Electronic Characteristics at 25° C				
I _F = 20 mA, ambient temperature = 25° C	min	typ	max	unit
Luminous intensity	9	24		mcd
Peak emission wavelength		565		nm
Spectral half bandwidth		26		nm
Forward voltage		2.3	2.7	V
Reverse leakage			100	μA
Reverse voltage	5			V
Light emission angle		180°		Degree

Note: according IEC 60825-1 (EN60825):

LED Radiation

Do not view directly with optical instruments.

Figure 1



www.excelitas.com

Figure 2
Suggested Mounting Method

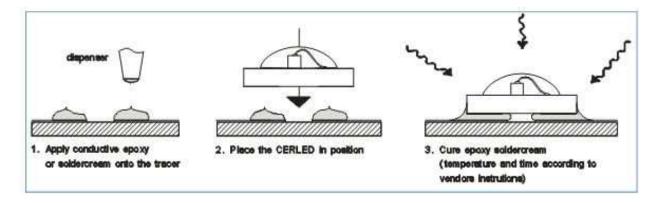
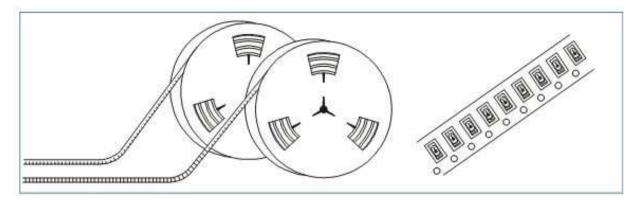
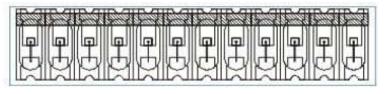


Figure 3
Special Packaging Standard 8 mm Blister Tape



Arrays: Available in strips up to 12 CERLEDs with a max. pitch tolerance in spacing and linearity of ± 0.01 mm between chip centers.



Code to order strips: CR 10 sg - XX (no. of LEDs)

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