

CERLED®

Ceramic Chip SMD

SMD
Low Profile
CR 60 R red



Description

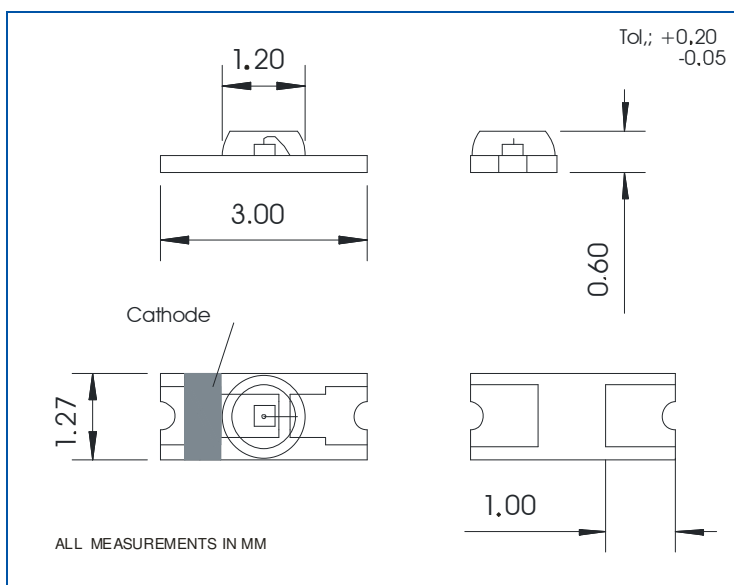
The solder pads provide an excellent heat sink. For multi-colour displays just choose 2 or more CERLEDs and mount them side by side or even antiparallel. Ideal for back - light applications. Small true chip - LED to build custom configurations.

Available on special order in 8 mm blister tape.

The CR 60 R has a clear epoxy lens.

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



Maximum Ratings at 25 °C

Power dissipation	P_{tot}	130 mW
Derating linear		2.4 mW / °C
Peak forward current	I_{FSM} (10 μ s)	500 mA
Continuous forward current	I_F	60 mA
Junction temperature	T_j	120 °C
Storage temperature	T_{st}	-20 °C to 120 °C
Operating temperature	T_{op}	-20 °C to 80 °C
Soldering temperature	T_{sold} (10 s)	240 °C

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

Optical and Electronic Characteristics at 25 °C

$I_F = 20$ mA, ambient temperature = 25 °C

	min	typ	max	unit
Luminous intensity	100	140		mcd
Peak emission wavelength		628		nm
Spectral half bandwidth		20		nm
Forward voltage		2.0	2.6	V
Reverse leakage @ 5 V			10	μ A
Reverse voltage	5			V
Light emission angle		100°		Degree

Note: according IEC 60825-1 (EN60825-1):
LED Radiation class 1

Figure 1

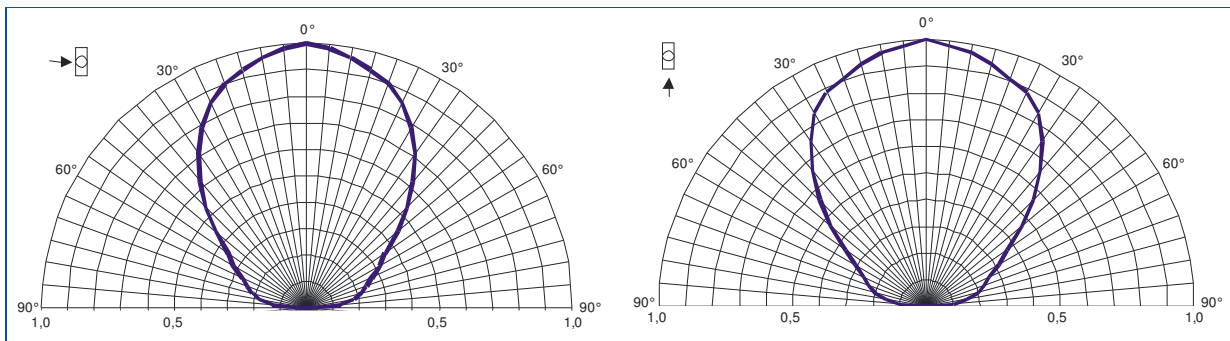




Figure 2
Suggested Mounting Method

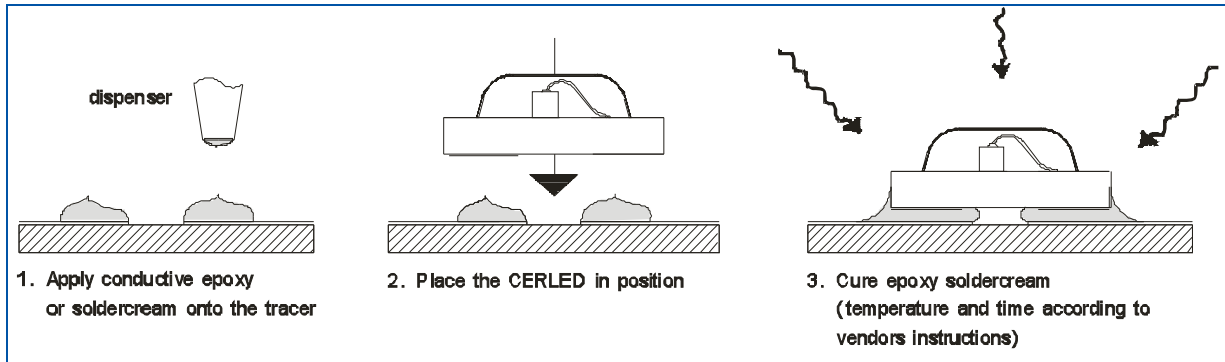


Figure 3
Special Packaging Standard 8 mm Blister Tape

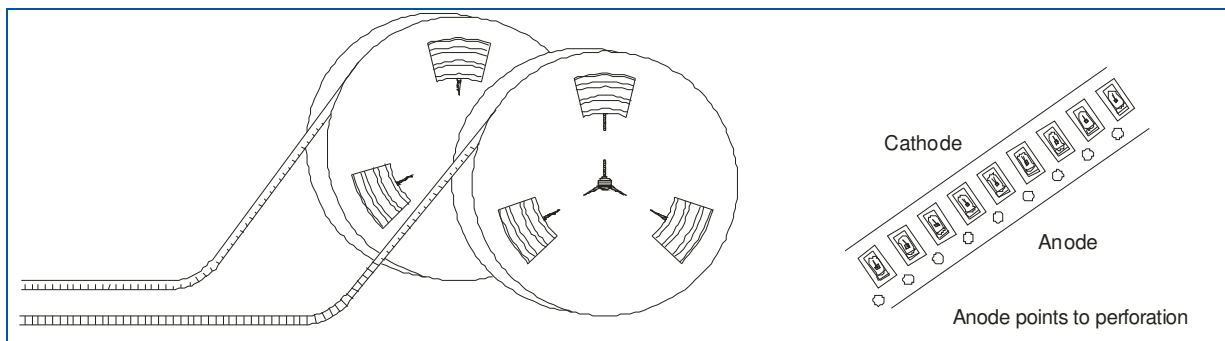
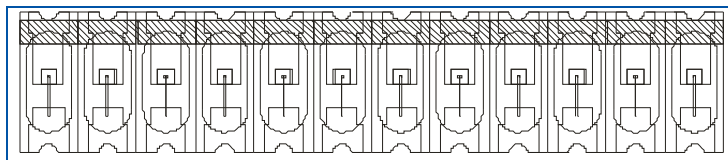


Figure 4
Arrays: Available in strips up to 12 CERLEDs with a max. pitch tolerance in spacing and linearity of ± 0.01 mm between chip centers.



Code to order strips:
CR 60 r – XX (no. of LEDs)

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