# CERLED® Ceramic Chip SMD

LED Solutions™ by PerkinElmer.

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.

# 1.20 3.00 Cathode 1.00 ALL MEASUREMENTS IN MM

## **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 <sub>tot</sub>	130 mW
Derating linear		2.4 mW / ° C
Peak forward current	I <sub>FSM</sub> (10 μs)	500 mA
Continuous forward current	I <sub>F</sub>	60 mA
Junction temperature	T <sub>j</sub>	120° C
Storage temperature	T <sub>st</sub>	-20°C to 120°C
Operating temperature	T <sub>op</sub>	-20°C to 80°C
Soldering temperature	T <sub>sold</sub> (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 <sub>F</sub> = 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	μΑ	
Reverse voltage	5			V	
Light emission angle		100°		Degree	

Note: according IEC 60825-1 (EN60825-1):

LED Radiation class 1

Figure 1

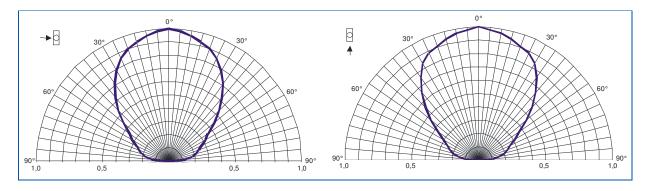




Figure 2 Suggested Mounting Method

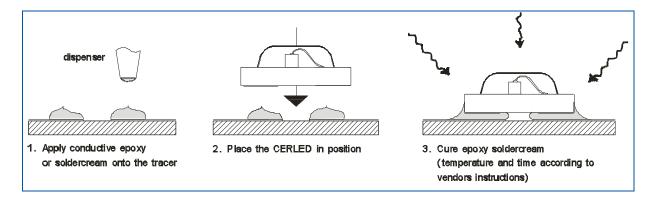
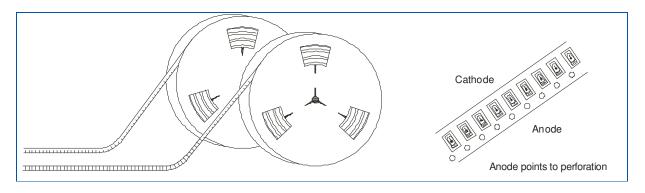
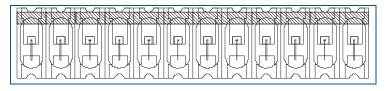


Figure 3
Special Packaging Standard 8 mm Blister Tape



**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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