CERLED[®] Ceramic Chip SMD SMD - Wide-Viewing Angle

In the second se

Description

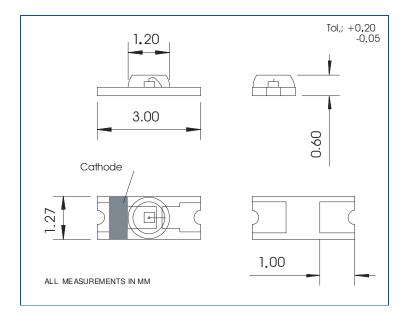
Low Profile

CR 60 G green

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 G 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



	-	
Power dissipation	P _{tot}	130 mW
Derating linear		2.4 mW / ° C
Peak forward current	I _{FSM} (10 μs)	100 mA
Continuous forward current	IF	30 mA
Junction temperature	T _i	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.

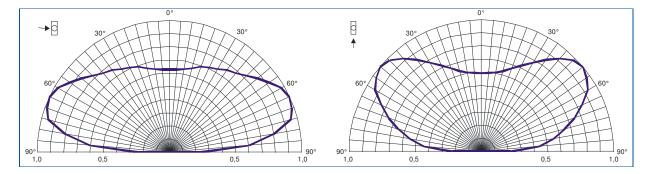
Optical and Electronic Characteristics at 25° C

-	min	typ	max	unit
Luminous intensity	150	180		mcd
Peak emission wavelength		525		nm
Spectral half bandwidth		35		nm
Forward voltage		3.3	3.8	V
Reverse leakage @ 5 V			10	μA
Reverse voltage	5			V
Light emission angle		170°		Degree

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

LED Radiation class 1

Figure 1



LED Solutions

by PerkinElmer.

Figure 2

Suggested Mounting Method

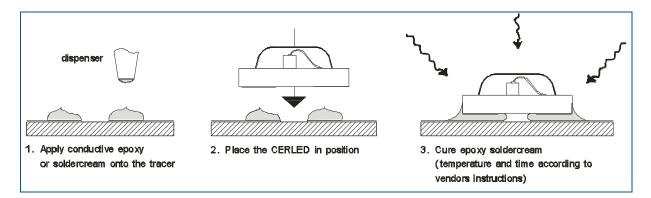


Figure 3

Special Packaging Standard 8 mm Blister Tape

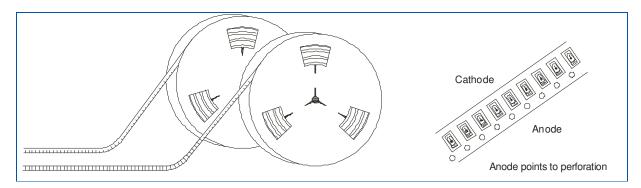
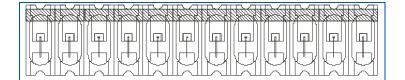


Figure 4

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 g - XX (no. of LEDs)

PerkinElmer Elcos GmbH European Customer Support for LED Solutions Luitpoldstrasse 6 85276 Pfaffenhofen, Germany Telephone: (+49)8441-8917-0 Fax: (+49)8441-71910 Elcos.sales@perkinelmer.com

European Headquarters Wenzel-Jaksch-Strasse 31 65199 Wiesbaden, Germany Telephone: (+49)611-492-247 Fax: (+49)611-492-170

opto.Europe@perkinelmer.com

North America Customer Support Hub

22001 Dumberry Road Vaudreuil-Dorion, Québec Canada J7V 8P7 Telephone:(+1) 450-424-3300 (+1) 866-574-6786 (toll-free) Fax: (+1) 450-424-3345 opto@perkineImer.com

Asia Customer Service Hub 47 Ayer Rajah Crescent #06-12 Singapore 139947 Telephone: (+65)6775-2022 (+65)6775-1008 epto. Asia@perkinelmer.com



For a complete listing of our global offices, visit www.optoelectronics.perkinelmer.com

©2005 PerkinElmer, Inc. All rights reserved. The PerkinElmer logo and design are registered trademarks of PerkinElmer, Inc. CERLED® is a trademark of PerkinElmer, Inc. or its subsidiaries, in the United States and other countries. All other trademarks not owned by PerkinElmer, Inc. or its subsidiaries that are depicted herein are the property of their respective owners. PerkinElmer reserves the right to change this document at any time without notice and disclaims liability for editorial, pictorial or typographical errors.

3