CERLED[®] Ceramic Chip SMD

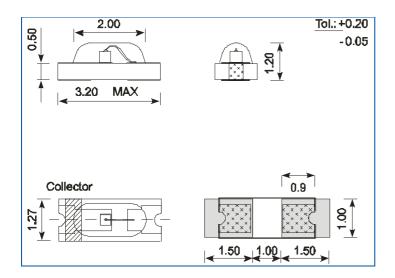
SMD – Wide-Viewing Angle CR 50 TE Photo Transistor



Description

The solder pads provide an excellent heat sink. For multi-sensors just choose 2 or more CERLEDs. Clear epoxy lens. Special Type (CR50TE-DLF) with daylight filter on request.

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.



Features and Benefits

LED Solutions[®]

by PerkinElmer.

- > Solid state ceramic chip
- Surface mounting device
- High thermal conductivity
- 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

Storage temperature	Т	-25° C to 120° C
Operating temperature		-25° C to 80° C
Soldering temperature	T _{sold} (10 s)	240°C

Optical and Electronic Characteristics at 25°C

min	typ	max	unit	conditions
40			V	I = 100 μA
		400	nA	V _{CE} : 20V, E _V : 0Lx
		0.3	V	I _C : 2 mA, I _b : 1000 μA
	900		nm	
	4		μs	$R_L = 50 \Omega$, f = 1 MHz
	0.18		mm²	
	200		mW	
1000		1800		$V_{CE} = 5V, I_B = 3 \ \mu A$
	40	40 900 4 0.18 200	40 400 400 0.3 900 4 0.18 200	40 V 400 nA 0.3 V 900 nm 4 μs 0.18 mm² 200 mW

Figure 1

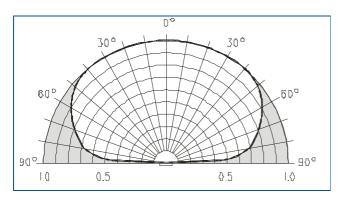


Figure 2

Suggested Mounting Method

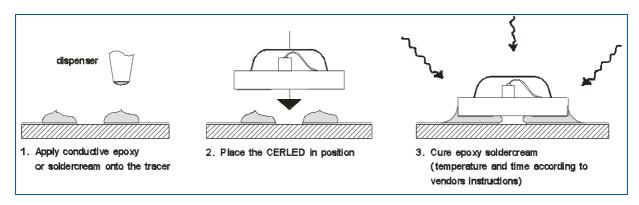




Figure 3 Special Packaging Standard 8 mm Blister Tape

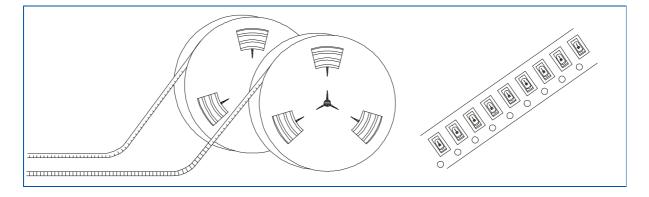
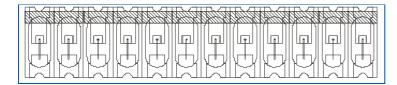


Figure 4

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 50 te - XX (no. of LEDs)

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