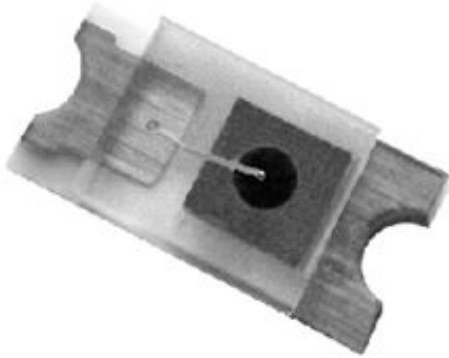


# CERLED<sup>®</sup>

## SMD Chip Detector

Photo Pin Diode  
SR 10 DE -H\*

\*RoHS-Compliant

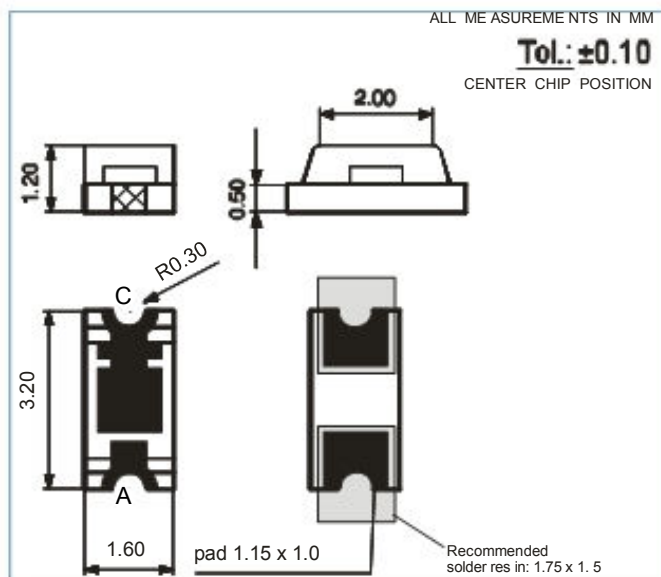


### Description

The solder pads provide an excellent heat sink. On special request also available with daylight filter (SR10DE-DLF). Ideal for sensor applications. Available on special order in 8 mm blister tape.

### Features and Benefits

- ▶ Chip on PCB, surface mounting device
- ▶ Center chip position, also available  $\pm 0.05$  mm (SR10DE-B)
- ▶ End - to - end and side - to - side stackable down to a pitch of 1.6 mm



### Maximum Ratings at 25° C

Storage temperature	T <sub>st</sub>	-25° C to 120° C
Operating temperature	T <sub>op</sub>	-25° C to 80° C
Soldering temperature	T <sub>solid</sub> (10 s)	245° C

### Characteristics at 25° C

	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	V <sub>(BR)R</sub>	50			V	I <sub>R</sub> = 5 μA, E <sub>E</sub> = 0 mW/cm <sup>2</sup>
Forward voltage	V <sub>F</sub>			1.5	V	I <sub>F</sub> = 100 mA
Reverse dark current	I <sub>R</sub>			0.5	nA	V <sub>R</sub> = 5 V, E <sub>E</sub> = 0 mW/cm <sup>2</sup>
Turn on / turn off time	T <sub>on</sub> / t <sub>off</sub>		150		ns	V <sub>R</sub> = 5 V, 50 Ω, 850 nm
Light reverse current	I <sub>SC</sub>	2			μA	V <sub>R</sub> = 5 V, E <sub>E</sub> = 0 mW/cm <sup>2</sup> λ = 940 nm
Range of spectral bandwidth	λ	530		1000	nm	
Active area	A		0.56 x 0.56		mm <sup>2</sup>	

Orientation of taped parts: anode to perforation

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