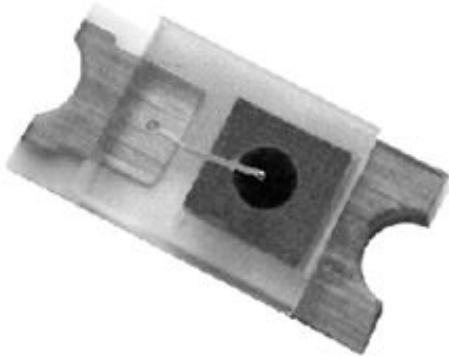


CERLED[®]

SMD Chip Detector

Photo Pin Diode
SR 10 DE-B -H*

*RoHS-Compliant



Description

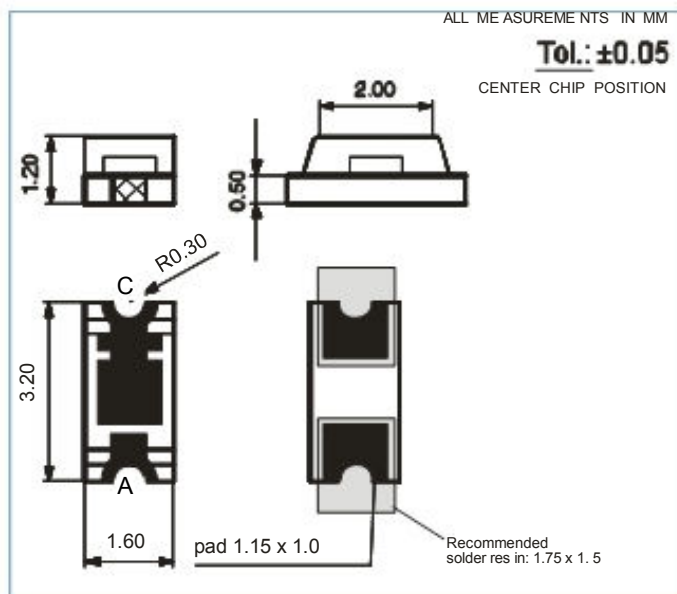
The solder pads provide an excellent heat sink. On special request also available with daylight filter (SR10DE-B-DLF).

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 ± 0.1 mm (SR10DE)
- ▶ End - to - end and side - to - side stackable down to a pitch of 1.6 mm



Maximum Ratings at 25° C

Storage temperature	T _{st}	-25° C to 120° C
Operating temperature	T _{op}	-25° C to 80° C
Soldering temperature	T _{sold} (10 s)	245° C

Characteristics at 25° C

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

Orientation of taped parts: anode to perforation

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