

CERLED[®]

SMD Chip Detector

Photo Pin Diode
SR 10 DE-B -H*

*RoHS-Compliant

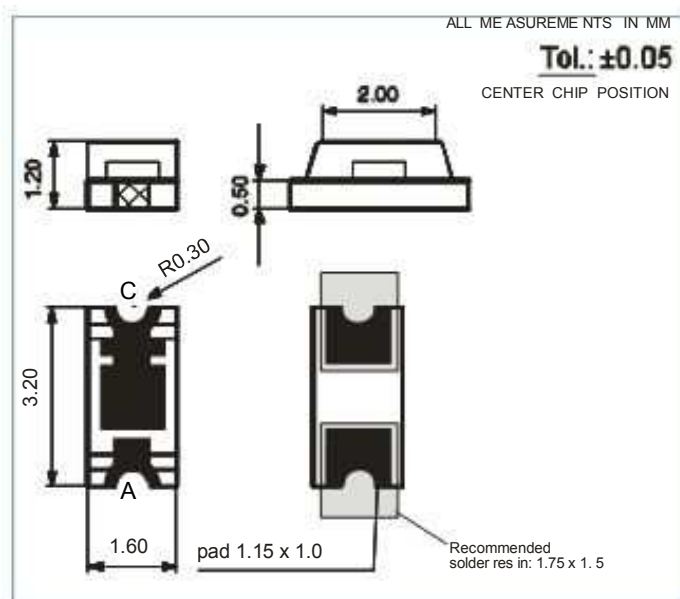


Description

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

Excelitas Technologies
European Customer
Support for LED Solutions
 Luitpoldstrasse 6
 85276 Pfaffenhofen, Germany
 Telephone: (+49)8441-8917-0
 Fax: (+49)8441-71910
 generalinquiries@excelitas.com

European Headquarters
 Wenzel-Jaksch-Strasse 31
 65199 Wiesbaden, Germany
 Telephone: (+49)611-492-269
 Fax: (+49)611-492-170

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

Asia Customer Service Hub
 47 Ayer Rajah Crescent #06-12
 Singapore 139947
 Telephone: (+65)6775-2022
 (+65)67704-366
 Fax: (+65)6775-1008

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