CERLED® SMD Chip Detector

Selective Photodiode SR 10 SPD 470 - 0.9 -H*

*RoHS-Compliant



Description

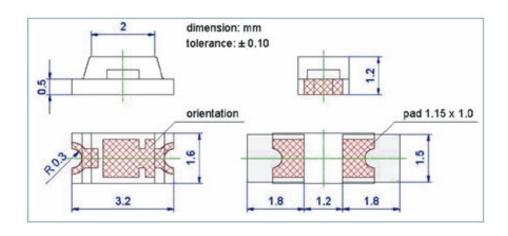
Wavelength range: bluish-green;

GaP technology.

Ideal for sensor applications, alarm systems, light barriers, special sensors for automotive industry.

Available in 8 mm blister tape.

Chip size: 0.86 x 0.86 mm.



Features and Benefits

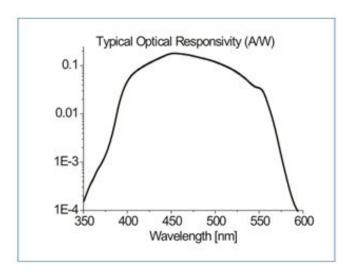
- Narrow bandwidth and high spectral sensitivity in the bluish-green visible range (380...556 nm)
- Low cost chip based on GaP
- Chip on PCB, surface mounting device
- ➤ End to end and side - to - side stackable down to a pitch of 1.6 mm



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} (5 s) 240° C

	Symbol	Value	Unit
Active area	Α	0.7	mm²
Peak sensitivity wavelength	λρ	470	nm
Spectral range at 0.5 max.	λmin - λmax	425 525	nm
Spectral range at 0.1 max.	λmin - λmax	380 556	nm
Typical responsivity at λ _p	Sλ	0.18	A/W
Spectral bandwidth at 50 %	Δλ0.5	100	nm
Maximal dark current at V _R = 5 V	lo	30	pA
Maximal reverse voltage at IR = 100 μA	VR	10	V
Temperature coefficient of ID	TCID	5	times/K
Operating and storage temperature range	Tamb / Tstg	-25 to +100	°C

Figure 1



Orientation of taped parts: anode to perforation

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