

CERLED[®]

SMD Chip Detector

Selective Photodiode
SR 10 SPD 525 - 0.9 -H*

*RoHS-Compliant



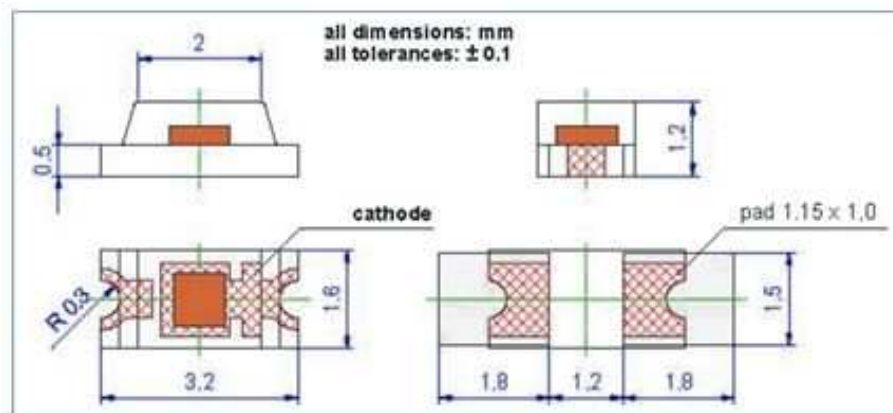
Description

Wavelength range: green;

GaP technology.

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

Available in 8 mm blister tape.



Features and Benefits

- Narrow bandwidth and high spectral sensitivity in the green-red visible range (450...570 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

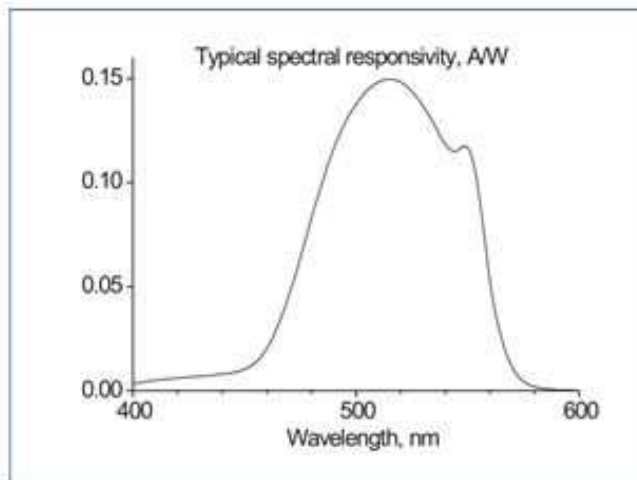
Maximum Ratings at 25° C

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

Characteristics at 25° C

	Symbol	Min.	Typ.	Max.	Unit	Conditions
Active area	A		0.73		mm ²	
Peak sensitivity wavelength	λ_p	510	525	535	nm	V _R = 0 V
Spectral range at 0.5 max.	$\lambda_{0.5}$	480		560	nm	V _R = 0 V
Responsivity at λ_p	S _{λ}	0.15	0.25	0.38	A/W	V _R = 0 V
Spectral bandwidth at 50 %	$\Delta\lambda_{0.5}$		75		nm	V _R = 0 V
Dark current	I _D		5	30	pA	V _R = 1 V, E _a = 0
Reverse voltage	V _R	5			V	I _R = 10 μ A
Temperature coefficient of I _D	TCI _D		4.7		%K	

Figure 1



Orientation of taped parts: anode to perforation

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