

CERLED[®]

SMD Chip Detector

Selective Photodiode
SR 10 SPD 880 - 0.9 -H*

*RoHS-Compliant

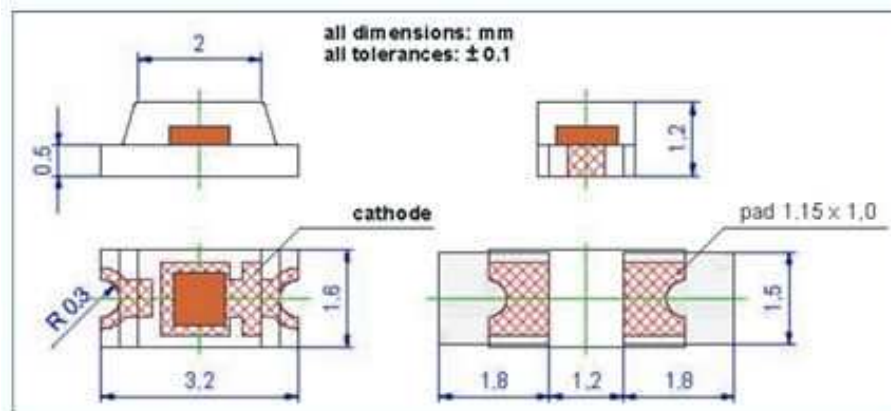


Description

Wavelength range: infrared, selective;
AlGaAs / GaAs technology.

Ideal for sensor applications, optical communications, safety equipment and light barriers.

Available in 8 mm blister tape.



Features and Benefits

- Narrow response range (880 nm peak)
- Chip on PCB, surface mounting device
- End - to - end and side - to - side stackable down to a pitch of 1.6 mm

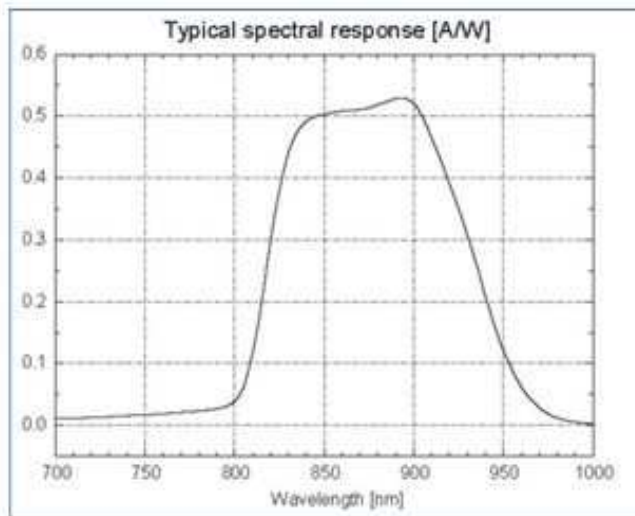
Maximum Ratings at 25° C

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	λ_{smax}		890		nm	V _R = 0 V
Spectral range at 0.5 max.	$\lambda_{0.5}$	820		935	nm	V _R = 0 V
Responsivity at 880 nm	S _{λ}		0.5		A/W	V _R = 0 V
Spectral bandwidth at 50 %	$\Delta\lambda_{0.5}$		115		nm	V _R = 0 V
Dark current	I _D		1	10	pA	V _R = 1 V, E _a = 0
Reverse voltage	V _R	5			V	I _R = 10 μ A
Switching time	T _r , t _r		175		ns	R _L = 50 Ω , V _R = 5 V

Figure 1



Orientation of taped parts: anode to perforation

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