Rev. A02



Electronics | OptoElectronics

Data Sheet DIN 41626 insert Si PIN Photodide

Si PIN Photodiode 320...1060nm 100MHz

General

This high speed Si PIN photodiode is designed for visible to near infrared light detection. The photodiode provides wideband characteristics at low bias, making it suitable for optical communications and other photometry. The insert includes a 1mm POF fiber stub for efficient fiber coupling.

The insert meet the requirements of DIN 41626 and are designed for use in mixed card edge connectors, type DIN 41612 or D-Sub.



Due to the high speed, the good optical and mechanical features, this receiver may be used in many applications:

- Optical networks
- Industrial electronic
- Power electronic



Style **Part Number**

DIN 41626 Male Insert

905EMPINDI104



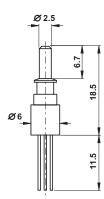
Pic. 1 Fiber optic receiver

Features

- 320...1060nm optical receiver
- High sensitivity
- 100MHz bandwidth
- High reliability
- 2.5mm metal ferrule
- Qualified for 1mm POF, PCF
- Wave soldering compatible

4 Technical Drawing _____

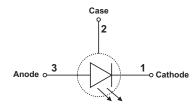
Case





Pic 2 Case drawing

Schematic



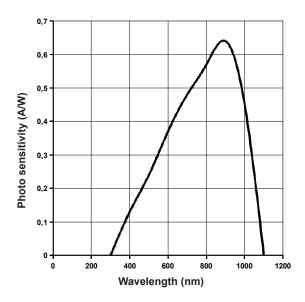
Pinout

PIN Nr.	Funktion			
1	Cathode			
2	Case			
3	Anode			

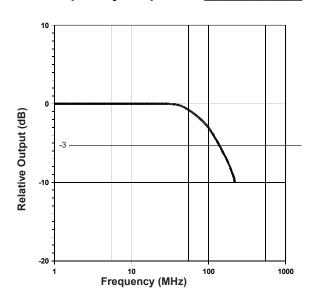


Si PIN Photodiode 320...1060nm 100MHz

6 Spectral response _



7 Frequency response _



8 Maximum ratings _____

Stresses beyond those listed under 'Maximum Ratings' may cause permanent damage to the device. Listed values are stress limits only and functional operation of the device at these conditions is not recommended. Exposure to maximum rating conditions for extended periods may affect the device reliability.

Parameter	Symbol	Value	Unit
Reverse voltage	V _R	V _R 20	
Power dissipation	Р	50	mW
Operating temperature	T _{opr}	-40 to +85	°C
Storage temperature	T _{stg}	-55 to +85	°C

9 Technical data

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Spectral range	λ		320		1060	nm
Peak sensitivity	λ_{PEAK}		-	900	-	nm
660nm sensitivity	S ₆₆₀		-	0.44	-	A/W
Dark current	I _D	V _R = 10V	-	0.07	1	nA
Cut-off frequency	f _c	V _R = 10V	-	100	-	MHz
Capacitance	C _t	V _R = 10V f = 1MHz	-	3	-	pF
Noise equivalent power	NEP	V _R = 10V	-	7.4 x 10 ⁻¹⁵	-	W/Hz ^{1/2}

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