



PT521

TECHNICAL DATA

TO-Can PIN Photodiode

Flat Window

PT521 is an InGaAs pin structure based photodiode on InP by MOCVD method and planar diffusing technology. The sensitive area is \varnothing 300 μ m respectively. TO-46 package with flat window.



Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	25	V
Optical Current	I_{OP}	10	mA
Forward Current	I_F	10	mA
Power Dissipation	P_D	100	mW
Operating Temperature	T_{opr}	-40 ... +85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ... +125	$^\circ\text{C}$
Soldering Temperature (max. 10 s)	T_{sol}	260	$^\circ\text{C}$

Specifications ($T_a=25^\circ\text{C}$)

Item		Value	Unit
Sensitive Area		\varnothing 300	μm
Spectral Response Range	Normal	500 .. 1650	nm
	Broad	-	nm
Responsivity (0 V)	$\lambda=850$ nm	≥ 0.20	A/W
	$\lambda=1310$ nm	≥ 0.75	A/W
	$\lambda=1550$ nm	≥ 0.80	A/W
Linear Range (0 V)	-	-70 .. +10	dBm
Capacitance (-5 V)		≤ 12	pF
Dark Current (-5 V)		≤ 5	nA
Operating Voltage		0 .. -10	V
Linearity		-	dB
Splicing Deviation		± 0.1	dB
Splicing Life		10^5	time
Highest Unsaturated Power		-	dBm



Outline Dimensions

TO-46 (flat window):

