



PD300-TO46-FW Series

Features:

- Large active area convenient for optical coupling
- Low Dark Current
- Respond to C-Band and 1310nm; L-Band
- High reliability

Applications:

- Near infrared sensors
- Laser diode and LED power monitor
- Near infrared spectroscopy
- Optical measurements and sensing

Specifications:

Absolute Maximum Ratings:

Parameter	Symbol	Min.	Max.	Unit
Reverse Voltage	V_R	—	20	V
Forward Current	I_F	—	50	mA
Max. Optical Input Power	P_{MAX}	—	30	mW
Operating Temperature	T_{op}	-40	+85	°C
Storage Temperature	T_{stg}	-40	+85	°C
Lead Solder Temperature	—	—	260	°C
Lead Solder Time	—	—	10	s

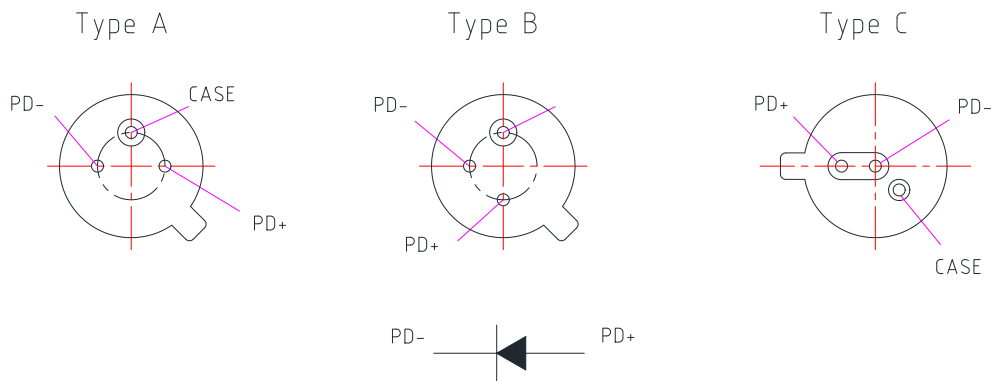
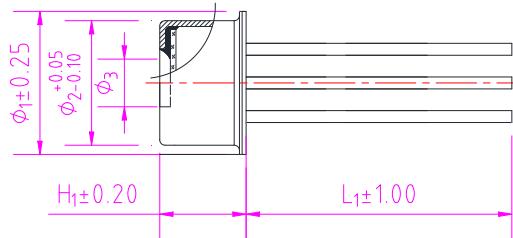
Characteristics: ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit	
Active Diameter	D	—	—	300	—	μm	
Bandwidth	BW	$P_i=-10\text{dBm}$, Small signal modulation, $V_R=5\text{V}$	400	600	—	MHz	
Responsivity	@1310nm	R	$V_R=5\text{V}$	0.80	0.90	—	A/W
	@1550nm	R	$V_R=5\text{V}$	0.90	0.95	—	A/W
Dark Current	ID	$V_R=5\text{V}$	—	0.1	0.6	nA	
Chip Capacitance	C_{chip}	$V_R=5\text{V}$, $f=1\text{MHz}$	—	4.0	6.0	pF	
Optical Spectrum Response Range	λ	—	1100	—	1620	nm	



Operating Voltage	V	—	—	-5.0	—	V
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Mechanical Dimension and Pin Assignment:



Standard Product List:

Product name	Φ ₁ (mm)	Φ ₂ (mm)	Φ ₃ (mm)	H ₁ (mm)	L ₁ (mm)	Received light form
PD300-TO46-FW-A	5.4	4.7	1.8min	3.25	14	Parallel light & Divergent light
PD300-TO46-FW-B	5.4	4.7	1.8min	3.25	14	
PD300-TO46-FW-C	5.4	4.7	1.8min	3.25	14	

- Standard and custom designs to suit your systems.

Order Information:

PD300 — — — —

<u>Header Type:</u> TO46	<u>Cap Type:</u> FW: Flat Window	<u>Numbers of Pin:</u> 3pin 4pin	<u>Pin Assignment:</u> A: Type A B: Type B C: Type C
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Statement:

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