



PD80-TO46-BL Series

Features:

- Low Voltage Operation
- Low Capacitance and High Speed with a PIN Structure
- Low Dark Current
- Excellent Stability

Applications:

- Digital and Analog Optical Communication
- Optical LAN
- OTDR

Specifications:

Absolute Maximum Ratings:

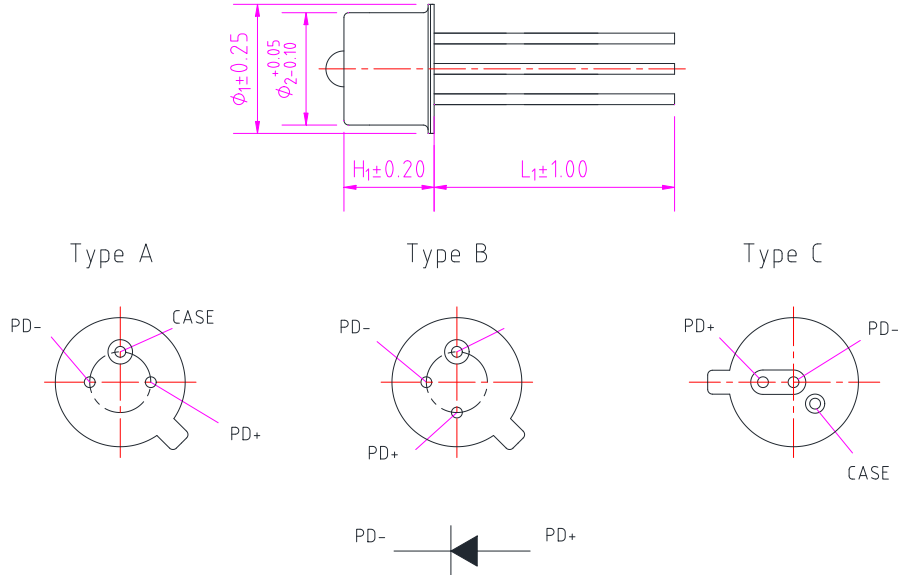
Parameter	Symbol	Min.	Max.	Unit
Reverse Voltage	V_R	—	20	V
Forward Current	I_F	—	10	mA
Max. Optical Input Power	P_{MAX}	—	10	mW
Operating Temperature	Top	-40	+85	°C
Storage Temperature	Tstg	-40	+85	°C
Lead Solder Temperature	—	—	260	°C
Lead Solder Time	—	—	10	s

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit	
Active Diameter	D	—	—	80	—	μm	
Bandwidth	BW	$P_i=-10\text{dBm}$, Small signal modulation, $V_R=5\text{V}$	—	2.0	—	GHz	
Responsivity	@1310nm	R	$V_R=5\text{V}$	0.8	0.9	—	A/W
	@1550nm	R	$V_R=5\text{V}$	0.9	0.95	—	A/W
Dark Current	ID	$V_R=5\text{V}$	—	0.03	0.16	nA	
Chip Capacitance	C_{chip}	$V_R=5\text{V}$, $f=1\text{MHz}$	—	0.65	0.8	pF	
Optical Spectrum Response Range	λ	—	1100	—	1650	nm	
Operating Voltage	V	—	—	-5	—	V	



Mechanical Dimension and Pin Assignment:



Standard Product List:

Product name	Φ_1 (mm)	Φ_2 (mm)	H_1 (mm)	L_1 (mm)	Received light form
PD80-TO46-BL(High)-A	5.4	4.7	3.75	14	Divergent light
PD80-TO46-BL(High)-B	5.4	4.7	3.75	14	
PD80-TO46-BL(High)-C	5.4	4.7	3.75	14	
PD80-TO46-BL(Short)-A	5.4	4.7	3.35	14	Parallel light
PD80-TO46-BL(Short)-B	5.4	4.7	3.35	14	
PD80-TO46-BL(Short)-C	5.4	4.7	3.35	14	

■ Standard and custom designs to suit your systems.

Order Information:

PD80 — — — —

<u>Header Type:</u> TO46	<u>Cap Type:</u> BL(High): High Ball Lens BL(Short): Short Ball Lens	<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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