



PD300-TO46-BL 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	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	—	—	300	—	μm	
Bandwidth	BW	Pi=-10dBm, Small signal modulation, $V_R=5\text{V}$	400	600	—	MHz	
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	I_D	$V_R=5\text{V}$	—	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	



Statement:

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