

InGaAs 1mm Photodiode TO-CAN

1. Features:

- High responsibility and high reliability;
- Low capacitance;
- Low dark current;
- TO46 spherical lens hermetic package.

2. Applications:

- Optical fiber communication instrument;
- Optical power measurement / monitoring.

3. Absolute Maximum Ratings(TC=25°C)

Parameter	Symbol	Ratings	Unit
Reverse voltage	V_{Rmax}	20	V
Operating case temperature	T_{OP}	-40 to +85	°C
Storage temperature	T_{ST}	-55 to +120	°C

4. Electro-Optical Characteristics(TC=25°C):

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Active area	ϕ	-	-	1	-	mm
Wavelength	λ_D	-	900	-	1650	nm
Responsibility	R	1310nm	0.85	0.9	-	A/W
		1550nm	-	0.95	-	
Operating voltage	V	$V_R = -5V$		-	-5	V
Dark current	I_d	$V_R = -5V$	-	1.5	5.0	nA
Capacitance	C	$V_R = -5V, f = 1MHz$	-	50	80	pF
3dB Bandwidth	Bw	$V_R = 0V, R_L = 50\Omega$	-	40	-	MHz

5. Outline Drawings& PIN-Definition:

