



InGaAs Photodiode



3001 series

Specification Datasheet

Description

3001 series is an InGaAs photodiode, which is designed for digital or analog optical transmission systems, and with high responsivity, high linearity, low dark current, and low capacitance, excellent reliability.

Features

High responsivity,
High linearity,
Low dark current,
Low capacitance,
Excellent Reliability
Response from 1200 to 1610nm

Application

Digital or analog optical transmission system, including for CATV forward/return path, GSM/CDMA, 3G repeater system.

Performance

Absolute Maximum Ratings

Parameter	Symbol	Rating	Units	Test condition
Optical input power	P_i	10	mw	-
Reverse voltage	V_r	20	v	
Reverse current	I_r	10	mA	

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Document: 3001_specs_Version 3_2

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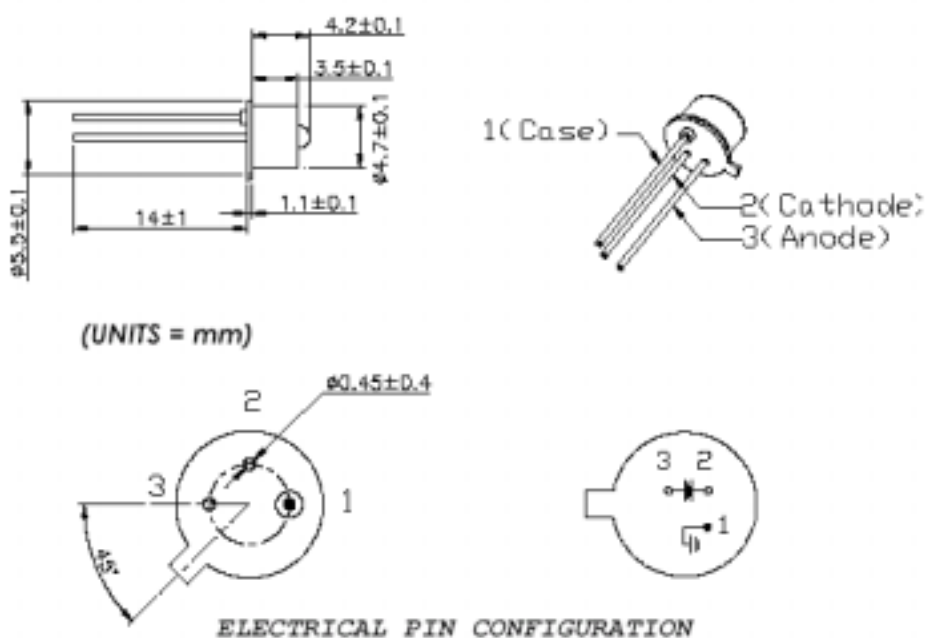
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Storage Temperature	T _s	-40~+85		-
Operating Temperature	T _o	-40~+85		-

Electrical/Optical Characteristics (T_c=25 °C)

Symbol	Parameter	Min	Typ	Max	Unit
λ	Wavelength	1200	-	1610	nm
λ_{1310}	Responsivity	0.8	0.85	-	mA/mw
λ_{1550}	Responsivity	0.85	0.90	-	mA/mw
C	Capacitance	-	-	0.7	pF
I _d	Dark current	-	-	1	nA
BW	Bandwidth (-3dB)	3.0	-	-	GHz
SMSR	Side Mode Suppression Ratio	30	-	-	dB
V _{cc}	Operating voltage		-5	0	v
T _{cc}	Operating temp	-40		+85	C

Outline Drawing



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Ordering information

X3001-001: TO-46 package,

Type	PIN function		
X3001-001	1	2	3
	Case	PD(-)	PD(+)

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