

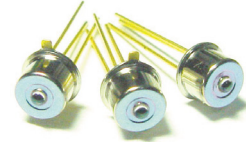
Features

- : GaAs PIN PD
- : 2.5 Gbps data rates
- : Ball Lens type TO-46 Can Package
- : Packaged with preamplifier
- : Other configurations available on request

Applications

- : High speed Data Communications
- : Gigabit Ethernet
- : Fiber Channel

Description

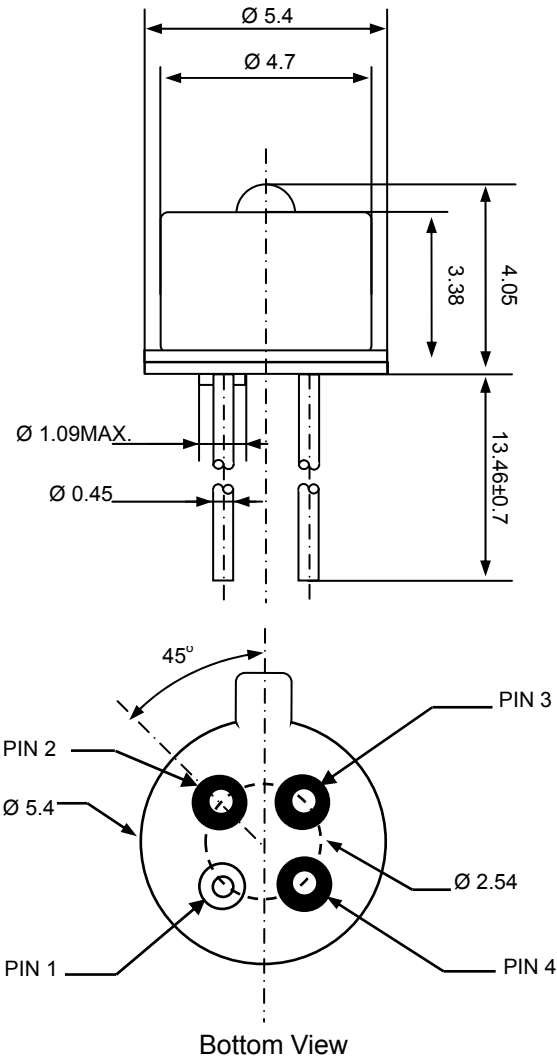


Absolute Maximum Ratings

Parameter	Rating
Storage Temperature	-40 to 100 °C
Operating Temperature	-20 to 85 °C
Lead Solder Temperature	260 °C, 10 sec
Power Supply Voltage	-0.5 to 4.0 V
Incident Optical Power	0 dBm average, 4 dBm Peak

Dimensions

Unit : mm



PIN OUT

Number	Function
1	GND
2	Vout +
3	V _{CC}
4	Vout -

Electro-Optics Characteristics ($V_{CC}=3.3V, AC$ coupled to $50\Omega, T_a=25^\circ C$ unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Small Signal Single-ended Responsivity	R		2100		V/W	Optical input signal of
Small Signal Differential Responsivity	R_{diff}		4200		V/W	$P_{ave}=-20dbm, \lambda=850nm$
Sensitivity	S	-18	-21		dBm	BER=1e-12 with 2.5Gbps optical input data of PRBS=2^31-1,
Optical Overload	OL		0		dBm	Re=10dB, $\lambda=850nm$
Single-ended Saturated Output Swing	$V_{o,sat}$	100	140		mV _{pp}	
Differential Saturated Output Swing	$V_{o,sat,diff}$	200	280		mV _{pp}	
3dB Bandwidth	$f_{h,-3dB}$	1.6	1.8		GHz	Optical input signal of $P_{ave}=-20dBm, \lambda=850nm$, referenced to 50MHz
Low Frequency Cutoff	$f_{l,-3dB}$			100	KHz	Optical input signal of $P_{ave}=-20dBm, \lambda=850nm$, referenced to 1MHz
Electrical Return Loss	S_{44}		-10		dB	10KHz to 2.5GHz
Rise/Fall Time	t_r/t_f		130		ps	Optical input signal of $P_{ave}=-20dBm, \lambda=850nm$
Output Resistance	R_o	40	50	60	Ω	Single-ended
Supply Voltage	V_{CC}	3.0	3.3	3.6	V	
Supply Current	I_{CC}	18	25	35	mA	
PD Bias Voltage	V_{pd}		2.4		V	

Notes

* These specifications are subject to change without notice

NOTICE

The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product