

**Features**

- : GaAs PIN PD
- : 1.25 Gbps data rates
- : Flat window type TO-46 Can Package
- : Packaged with preamplifier
- : Other configurations available on request

**Applications**

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

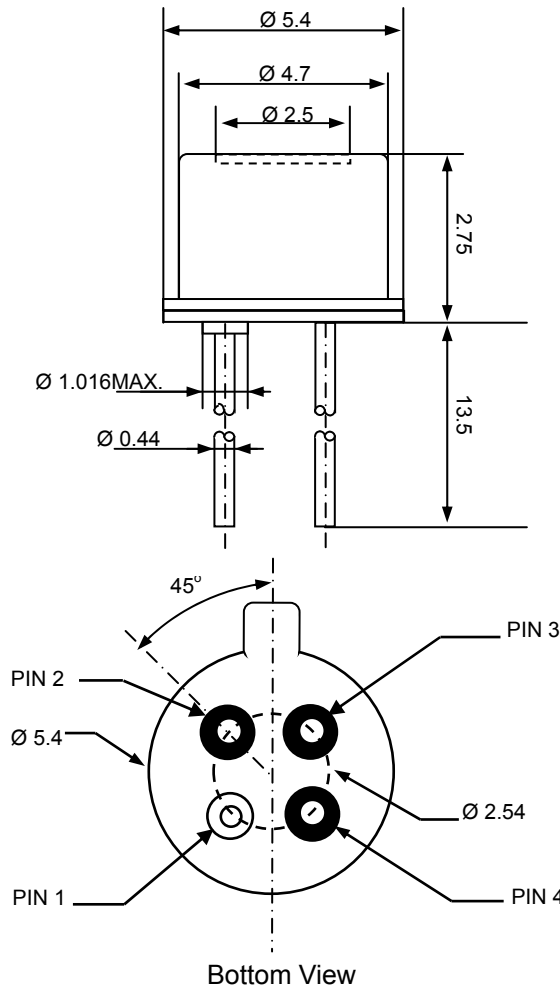
**Description**



**Absolute Maximum Ratings**

Parameter	Rating
Storage Temperature	-40 to 100 °C
Operating Temperature	0 to 70 °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 <sub>CC</sub>
4	Vout -

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

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Supply Voltage	$V_{CC}$	3.0	3.3	5.5	V	
Supply Current	$I_{CC}$		26	50	mA	
Differential Responsivity	$R_D$	900	1500	2200	V/W	$R_{load} = 100 \text{ ohm}$ , $P = -15 \text{ dBm}$ , 850 nm
Wavelength	$\lambda$	760	850	860	nm	
Optical Overload	$P_{Max}$	0			dBm	
Maximum Differential Output Voltage	$V_O$	185	250	415	mV <sub>p-p</sub>	$P=0\text{dBm}$ , 850nm
Differential Transimpedance		2260	2800	3400	Ohm	
Small signal Bandwidth	BW	750	920	1100	MHz	
Low Frequency Cut off	LF		44		KHz	
Single-ended Output Impedance	RS	48	50	52	Ohm	
Sensitivity	S	-21	-23		dBm	BER<1E-12, PRBS 2 <sup>7</sup> -1, 850nm wavelength
Rise/Fall Time	$T_R/T_F$		250	400	ps	20%~80%

**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