



Features

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

Description



Applications

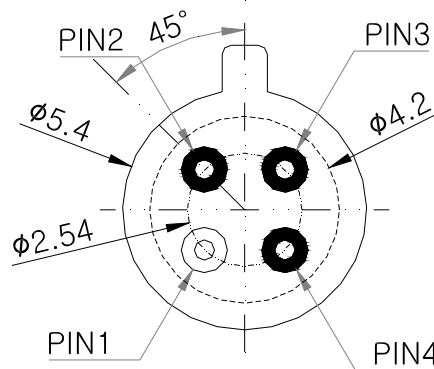
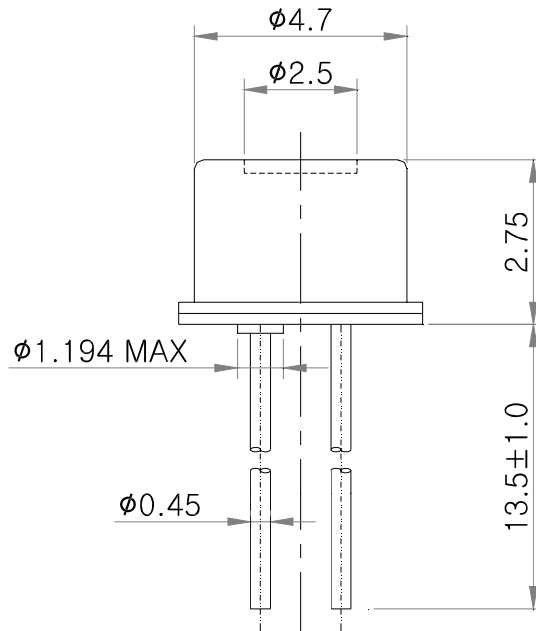
- : High speed Data Communications
- : Gigabit Ethernet
- : Fiber Channel

Absolute Maximum Ratings

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

Dimensions

Unit :mm



Bottom View

PIN OUT

PP85-F1T3N	
Number	Function
1	GND
2	Vout+
3	V <sub>CC</sub>
4	Vout-



Electro-Optics Characteristics (V<sub>CC</sub>=3.3V, T<sub>a</sub>=25 °C unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Wavelength Responsivity	$\lambda$	770	850	860	nm	
Supply Voltage	V <sub>CC</sub>	3.0	3.3	3.6	V	
Supply Current	I <sub>CC</sub>	13	17	23	mA	
Sensitivity	S	-20	-22		dBm	BER=1×10 <sup>-12</sup> PRBS=2 <sup>23</sup> -1 at 2.5Gbps
Differential Output Voltage	V <sub>o,diff</sub>	140	200	310	mV <sub>pp</sub>	
3dB Bandwidth	f <sub>h,-3dB</sub>		1.8		GHz	P <sub>ave</sub> =-12dBm,λ=850nm,
Low Frequency Cutoff	f <sub>l,-3dB</sub>		40	70	KHz	
Rise/Fall Time	t <sub>R</sub> /t <sub>F</sub>		130		ps	P <sub>ave</sub> =-12dBm,λ=850nm,
Output Resistance	R <sub>o</sub>	40	50	60	Ω	Single-ended

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