

5V / 155 Mbps InGaAs PIN-TIA Receiver

PT-3100 Series

FEATURES

- ² InGaAs/InP PIN Photodiode with AGC transimpedance amplifier
- ² Differential ended output
- ² Single +5V operation
- ² Speed Up to 170 Mbps
- ² - 40 ~ +85 °C operation temperature

DESCRIPTION

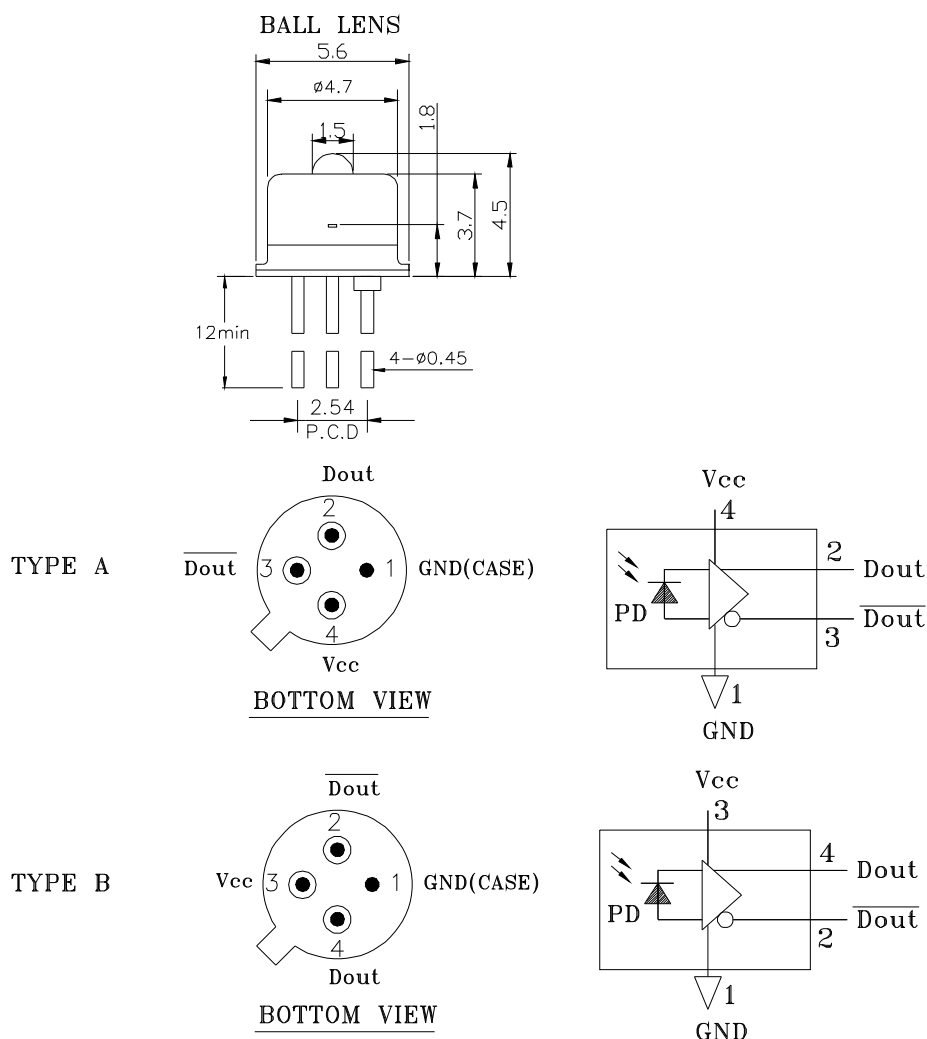
PT-3100 series are designed as optical signal receivers with transimpedance amplifier. Their wide dynamic ranges, differential outputs are suited for datacom and telecom applications, especially SONET OC-3 / SDH STM-1, Fast Ethernet, and Fiber Channel.

AC / ELECTRICAL AND OPTICAL CHARACTERISTICS (T _C =25°C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Detection Range		1100	1310	1650	nm
	Active Area			75		μm
G	Gain@10Mbps Differential	λ =1300nm	0.17	-	220	V/mW
BW	Bandwidth	P _f =1 μW	120	140		MHz
Psat	Saturation Power	λ =1300nm	-3	0		dBm
Sens	Sensitivity	BER=10 ⁻¹⁰ @155Mbps	-	-39	-36	dBm
Rout	Output Resistance		-	50	65	ohm
	Speed			155		Mbps

DC / ELECTRICAL CHARACTERISTICS (T _C =25°C)					
Symbol	Parameter	Min.	Typ.	Max.	Unit
V _{CC}	Power Supply	4.5	5	5.5	V
I _{CC}	Supply Current (no load)	-	-	30	mA

ABSOLUTE MAXIMUM RATING (T _C =25 °C)			
Symbol	Parameter	Value	Unit
V	Voltage	6	V
T _{opr}	Operating Temperature	-40~+85	°C
T _{stg}	Storage Temperature	-40~+85	°C

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



Note: Specifications subject to change without notice.

ORDER INFORMATION

Part No.: P T - 3 1 0

Code	Voltage
0	5V
3	3.3V

Code	PIN Assignment
Blank	Type A
B	Type B