

GaAs PIN PD MODULES

PD-8500 SERIES

GaAs PIN PHOTODIODE WITH RECEPTACLE

FEATURES

- ✧ High responsivity at 850 nm
- ✧ Low dark current
- ✧ Quick pulse response

APPLICATION

SDH, ATM, LAN

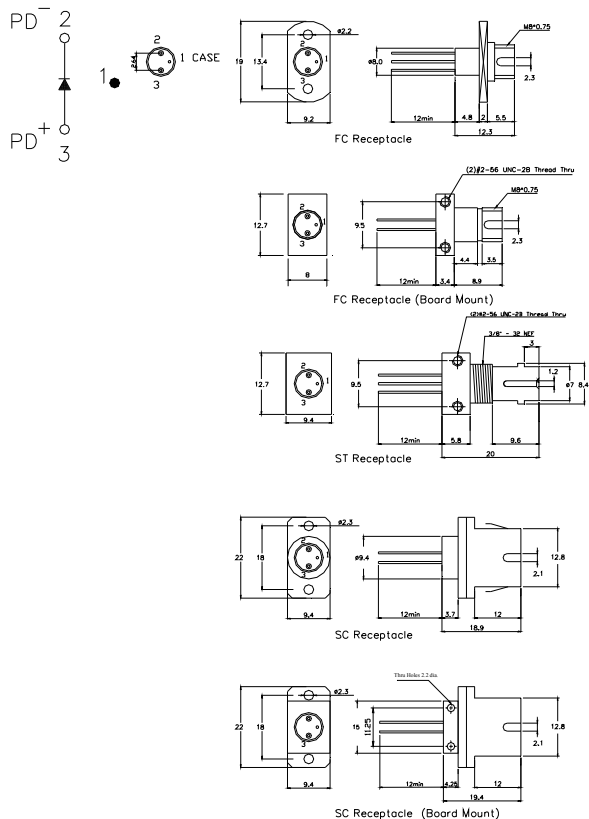
DESCRIPTION

PD-8500 series are designed for coupling a fiber with high reliable GaAs PIN photodiodes. PD-8500 series are specially designed as detector for Datacom and Telecom application.

ELECTRICAL AND OPTICAL CHARACTERISTICS (T _C =25°C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Detection Range	λ		850		nm
R	Responsivity	V _R =5V, λ =850 nm	0.45	0.5	-	A/W
I _{dark}	Dark Current	V _R =5V		0.1	0.7	nA
C	Capacitance	V _R =5V			1.0	pF
T _r /T _f	Rise/Fall Time	V _R =5V, 10~90%			0.2	ns
BW	Bandwidth	V _R =5V	2			GHz

Absolute Maximum Ratings (T _C =25 °C)			
Symbol	Parameter	Ratings	Unit
P _o	Input Optical Power	2	mW
V _{RD}	PD Reverse Voltage	20	V
I _{FD}	PD Forward Current	2	mA
T _{opr}	Operating Temperature	-40~+85	°C
T _{stg}	Storage Temperature	-40~+85	°C

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



Note: 1. Specifications subject to change without notice.
 2. Other PIN assignment is available upon request.

ORDER INFORMATION

Part No.: P D - 8 5 0 0 - □ □

Code	Wavelength
1	1310/1550 nm
3	1310 nm
5	1550 nm
8	850 nm

Code	Connector Type
F	FC/PC
FB	FC/PC (Board Mount)
T	ST/PC
S	SC/PC
SB	SC/PC (Board Mount)

Revision History

Version	Subject	Release Date
1.0	Initial datasheet	2003/2/1