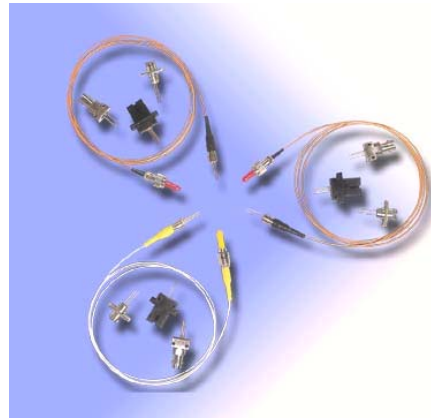


2.5Gbps InGaAs APD Module

Features

- High Responsivity, facilitates -34 dBm sensitivity
- High speed, typical 2.5GHz
- Low dark current
- Low capacitance, typical 0.35pF
- Operating temperature range -40°C to 85°C
- Hermetically sealed TO-18 package in pigtailed or receptacle housing
- RoHS Compliant

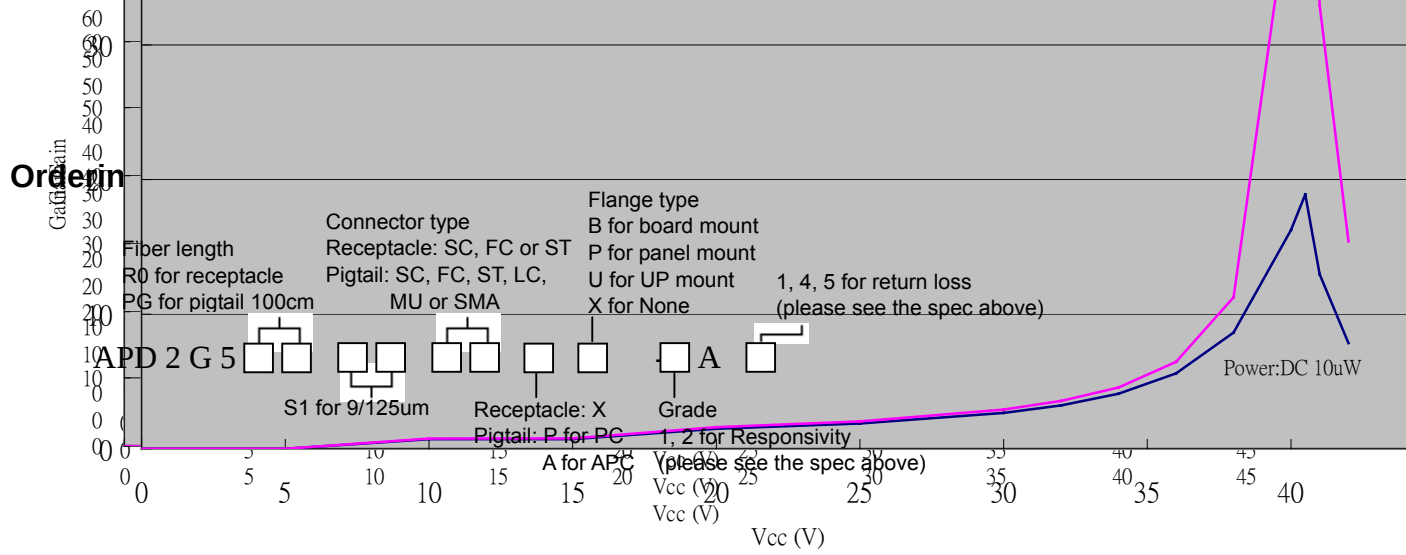


Specifications (T=25°C, -5V)

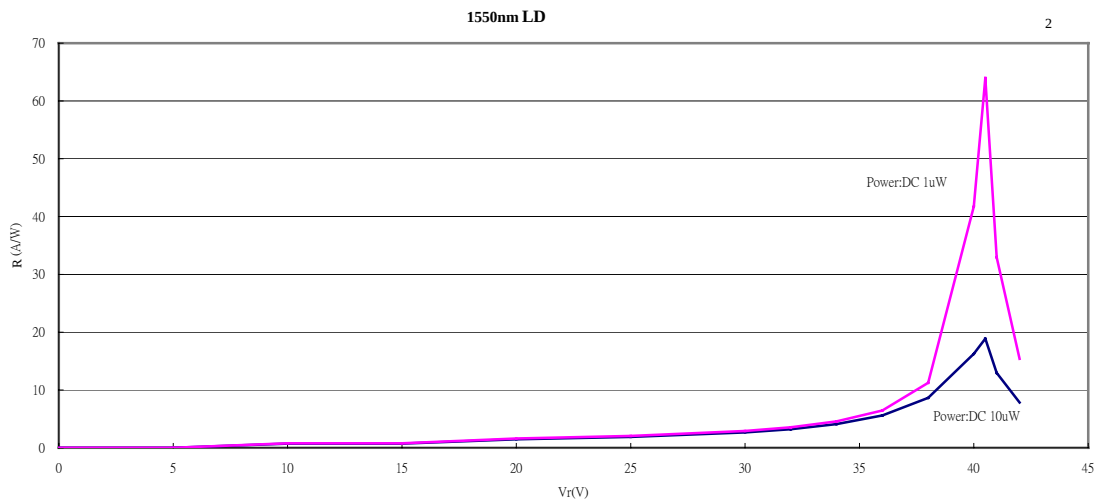
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Responsivity	R	850nm, Vr=40V 1310nm, Vr=10V 1550nm, Vr=10V	0.15 0.75 0.85	- - -	- - -	A/W
Spectral Range		-	850	-	1650	nm
Breakdown Voltage	V _{bd}	I _d =10uA	40	50	65	V
Temperature Coefficient of Breakdown Voltage			-	0.059	-	V/°C
Dark Current	I _d	0.9V _{bd} , 25°C	-	50	-	nA
	I _d	0.9V _{bd} , 85°C	-	500	-	nA
Gain	M	0.9V _{bd}	7	10		
Terminal Capacitance	C	0.9V _{bd} , f=1MHz	-	0.35	0.5	pF
Bandwidth (3dB)	BW	M=10	3	3.5	4	GHz
Series Resistance	R _s		-	-	60	Ω
Excess Noise Factor	F	M=10	-	3	4	
Return Loss						
-1(Receptacle)			14	-	-	dB
-3(Receptacle or Pigtail)			30			dB
-4(Receptacle or Pigtail)			40	-	-	dB
-5(Pigtail)			50	-	-	dB

Absolute Maximum Rating

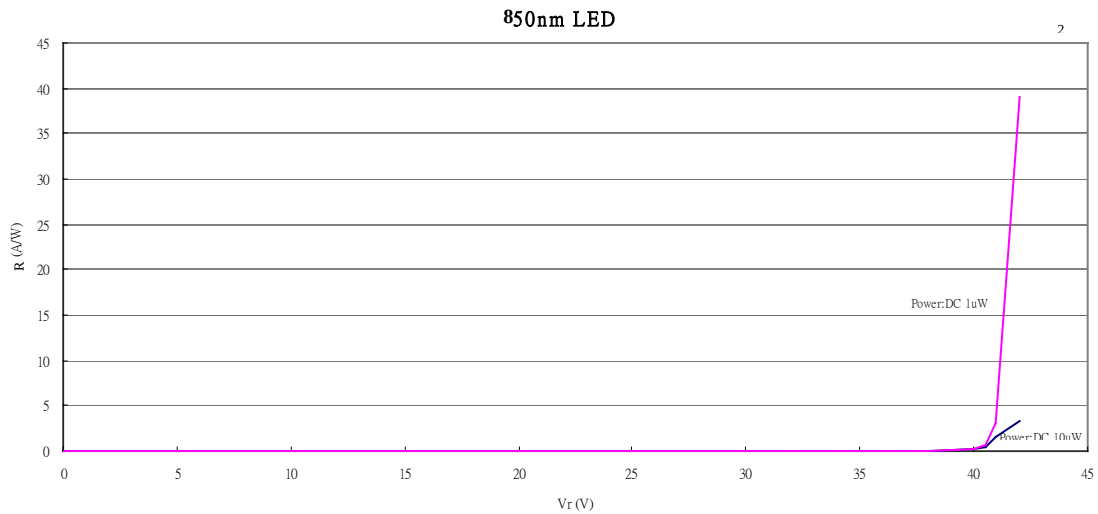
	Symbol	Min.	Max.	Unit
Operating Temperature	T _o	-40	85	°C
Storage Temperature	T _{stg}	-40	100	°C
Forward Current	I _F	-	10	mA
Reverse Voltage	V _R	-	V _{bd}	V
Reverse Current	I _R	-	3	mA
Optical Input	P	-	0	dBm
Lead Soldering Temperature (10 sec)	T _L	-	260	°C



Responsivity vs Voltage



Responsivity vs Voltage



2.5Gbps InGaAs APD Module

2.5Gbps InGaAs APD

