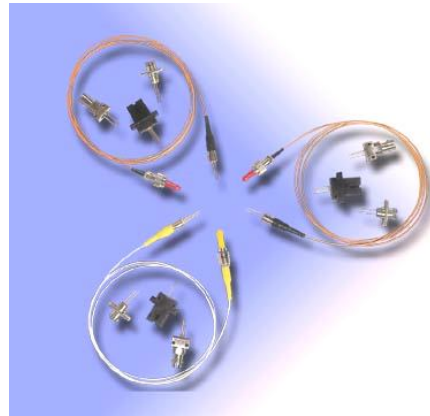


2.5Gbps InGaAs APD Module

Features

- High Responsivity, facilitates -28 dBm sensitivity
- High speed, typical 2.5GHz
- Low dark current
- Low capacitance, typical 0.23pF
- Operating temperature range -40°C to 85°C
- Hermetically sealed TO-18 package in pigtailed or receptacle housing
- RoHS Compliant



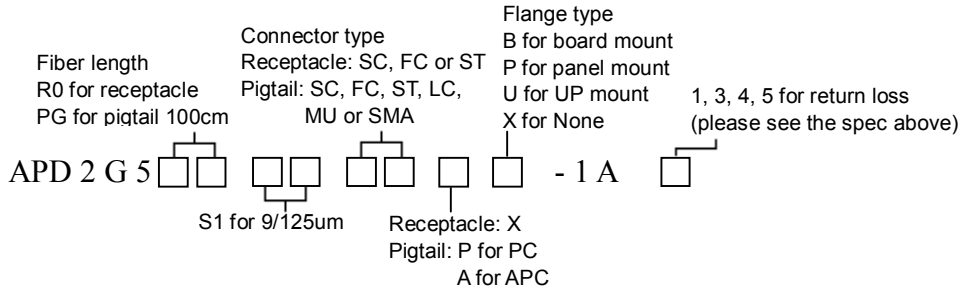
Specifications (T=25°C)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Spectral Range	λ		850	-	1650	nm
Breakdown Voltage	V_{BD}	$I_d=10\mu A$	32	-	46	V
Operating Voltage	V_{OP}	Best sensitivity	-	$V_{BD}-3$	$V_{BD}-2$	V
Temperature Coefficient of Breakdown Voltage			0.06	0.07	0.08	V/°C
Dark Current	I_d	$0.9 \cdot V_{BD}, 25^\circ C$	-	30	-	nA
	I_d	$0.9 \cdot V_{BD}, 85^\circ C$	-	360	-	nA
Gain	M	V_{OP}	7	10		
Terminal Capacitance	C	$0.9 \cdot V_{BD}, f=1MHz$	-	0.23	-	pF
Bandwidth (3dB)	BW	M=10	3	3.5	4	GHz
Series Resistance	R_s		-	-	60	Ω
Return Loss						
-1(Receptacle)			14	-	-	dB
-3(Receptacle or Pigtail)			30	-	-	dB
-4(Receptacle or Pigtail)			40	-	-	dB
-5(Pigtail)			50	-	-	dB

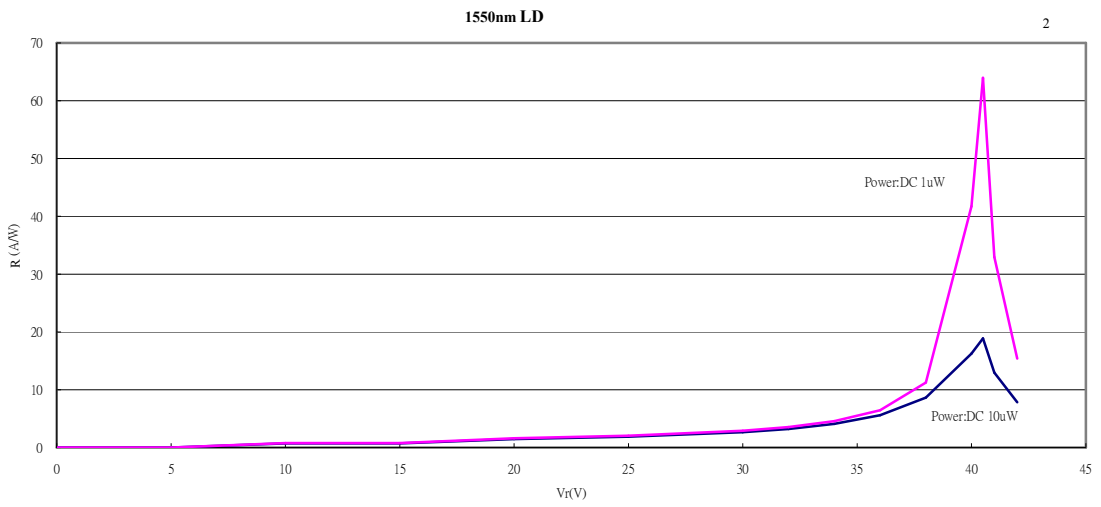
Absolute Maximum Rating

	Symbol	Min.	Max.	Unit
Operating Temperature	T_o	-40	85	°C
Storage Temperature	T_{stg}	-40	100	°C
Forward Current	I_F	-	2	mA
Reverse Voltage	V_R	-	V_{BD}	V
Reverse Current	I_R	-	3	mA
Lead Soldering Temperature (10 sec)	T_L	-	260	°C

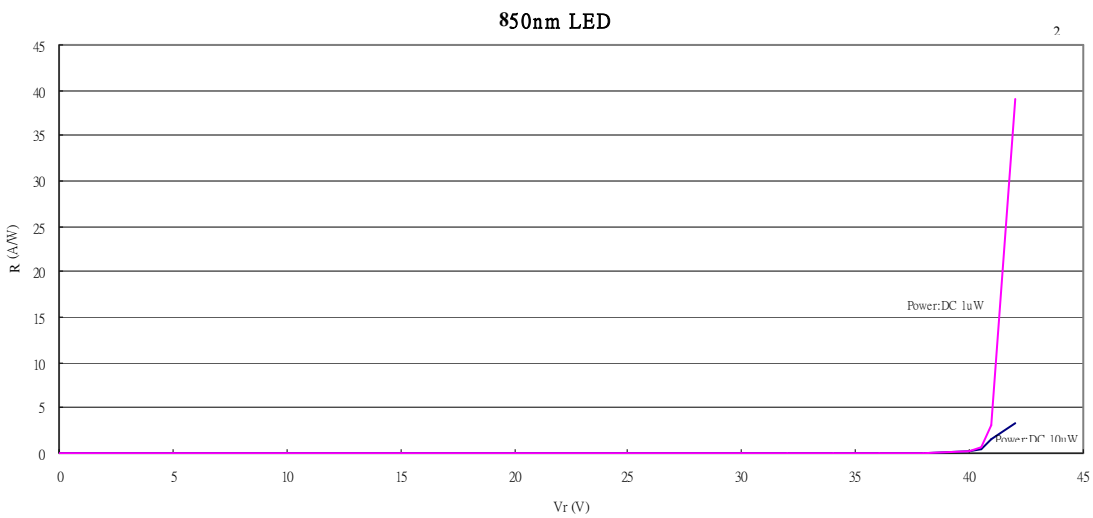
Ordering Information



Responsivity vs Voltage



Responsivity vs Voltage



2.5Gbps InGaAs APD Module

2.5Gbps InGaAs APD

