

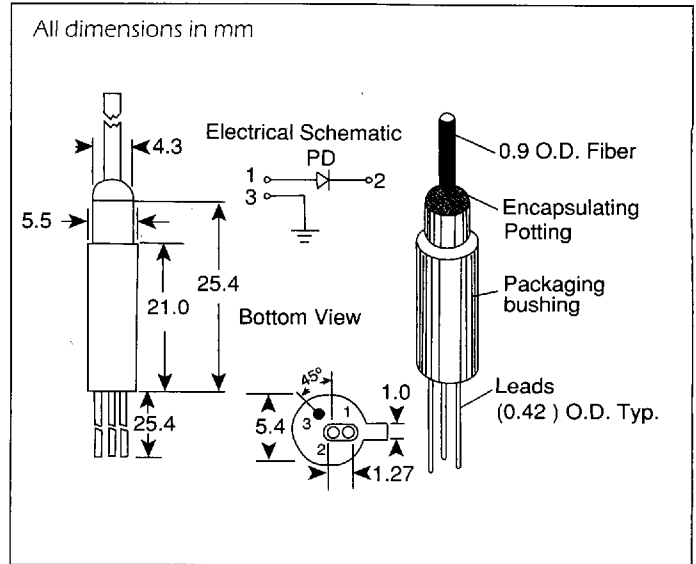
60 dB Optical Return Loss InGaAs PIN Photodiode Module Preliminary Specifications

Features

- Low back reflection at 1300 and 1550 nm
- High responsivity at 1300 and 1550 nm
- Bandwidth greater than 1 GHz
- Rugged coaxial package
- Singlemode fiber pigtail
 - multimode fiber option available

Applications

- Test and measurement
- Analog FM video links
- Feeder transmission systems
- CATV trunking systems



Preliminary Specifications Electrical Characteristics

($V_R = 5\text{ V}$, 25°C)

InGaAs PIN Photodiode

Parameter	Min.	Typ.	Max.	
Active Diameter		75		um
Responsivity at 1300 nm	0.75	0.85		A/W
Back reflection at 1300 nm		-63	-60	dB
Dark current		0.15	0.60	nA
Total capacitance ¹		0.55	0.75	pF
Bandwidth ²		2.0		GHz
Rise Time ³		175		pS

Notes:

¹Measured with case grounded

²3 dB point into a 50 ohm load

³ $R_{LOAD} = 50\text{ ohms}$.

Mounting Bracket Options

The ETX 75FJ-SLR60 pigtailed photodiode module is available with a bracket for simplifying mounting to a PC board. Brackets are made of either aluminum or DELRIN. To order, please specify the kind of bracket after the package configuration.

Designation Description

ETX MB10	Aluminum mounting bracket
ETX MB11	DELIN mounting bracket

Maximum Ratings

Parameter	Rating	Units
Reverse voltage ^A	25	V
Reverse current ^A	10	mA
Forward Current ^B	10	mA
Power Dissipation	100	mW
Operating Temperature	-40 / +85	°C
Storage Temperature	-40 / +85	°C

Notes:

^A Under reverse bias, current at which device may be damaged.

^B Under forward bias, current at which device may be damaged.

Ordering Information

Connector Options

Customers may order EPITAXX pigtailed photodiode modules terminated with fiber optic connectors. Standard connectors for the ETX 75FJ-SLR60 are presented below. To order, please specify connector after the package configuration.

Designation Description

-S-FC/PC	NTT spec physical contact FC connector on singlemode fiber
-S-FC/SPC	NTT spec super polished physical contact FC connector on singlemode fiber
-S-FC/APC	NTT spec angle polished FC connector on singlemode fiber
-S-ST	ATT spec ST connector on singlemode fiber
-S-RAD	Radial connector on singlemode fiber
-S-DIN	DIN connector on singlemode fiber
-S-D4	D4 connector on singlemode fiber

Figure 1

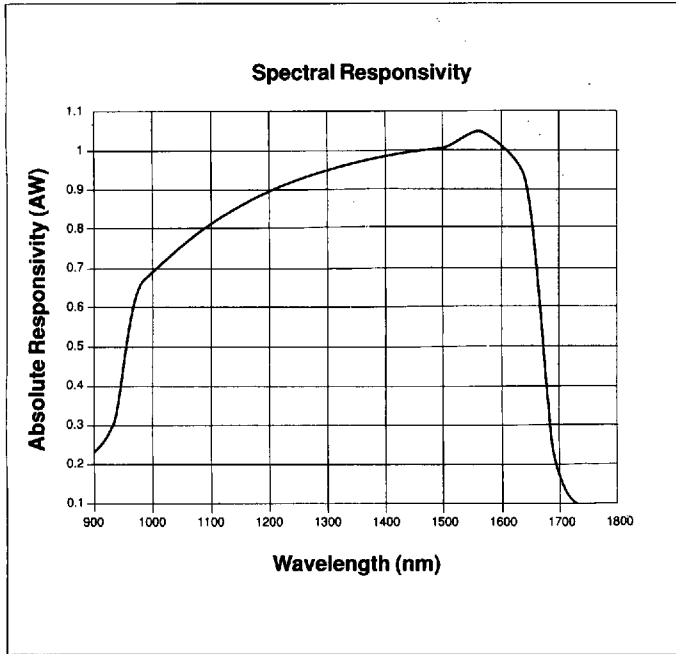


Figure 2

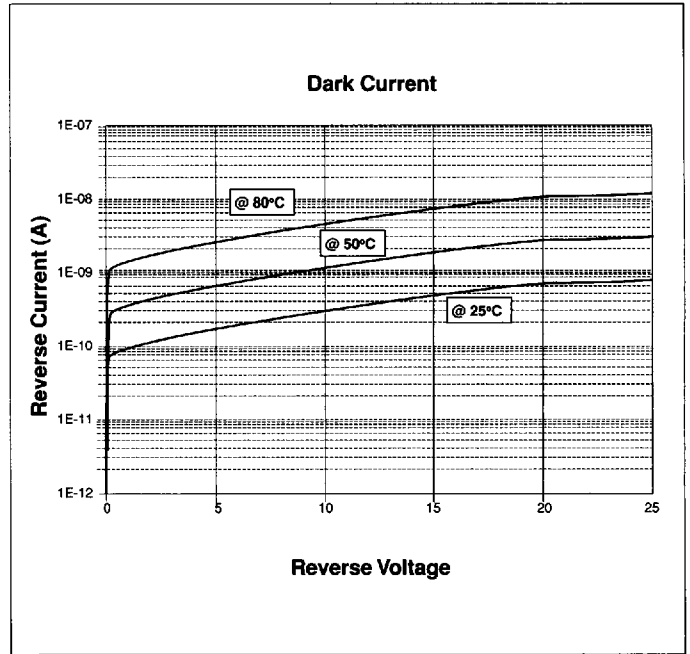


Figure 3

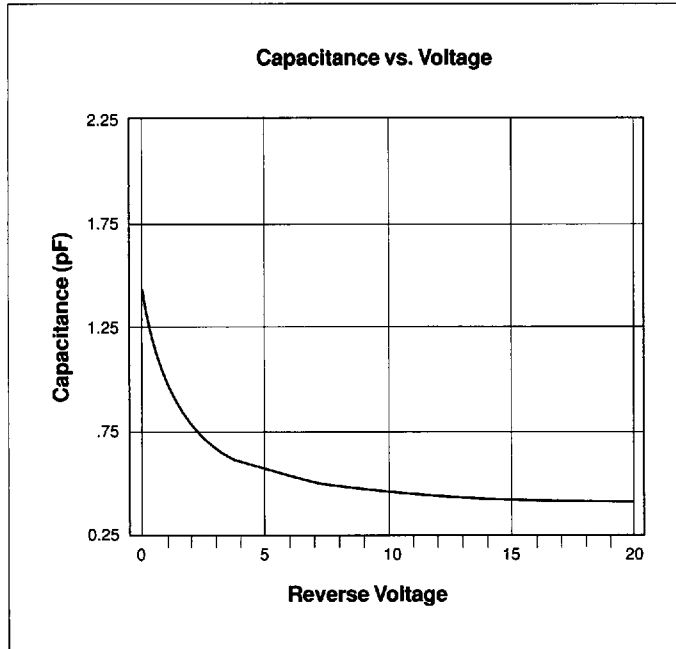
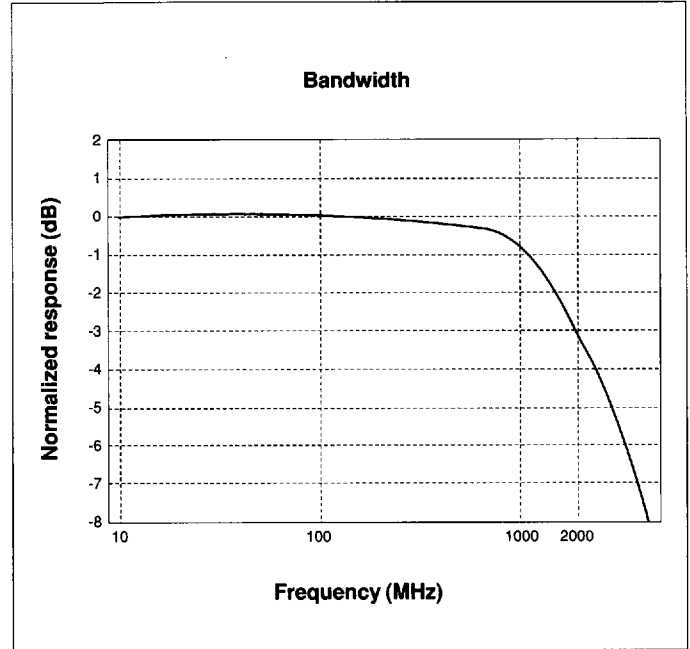


Figure 4



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