

**Features**

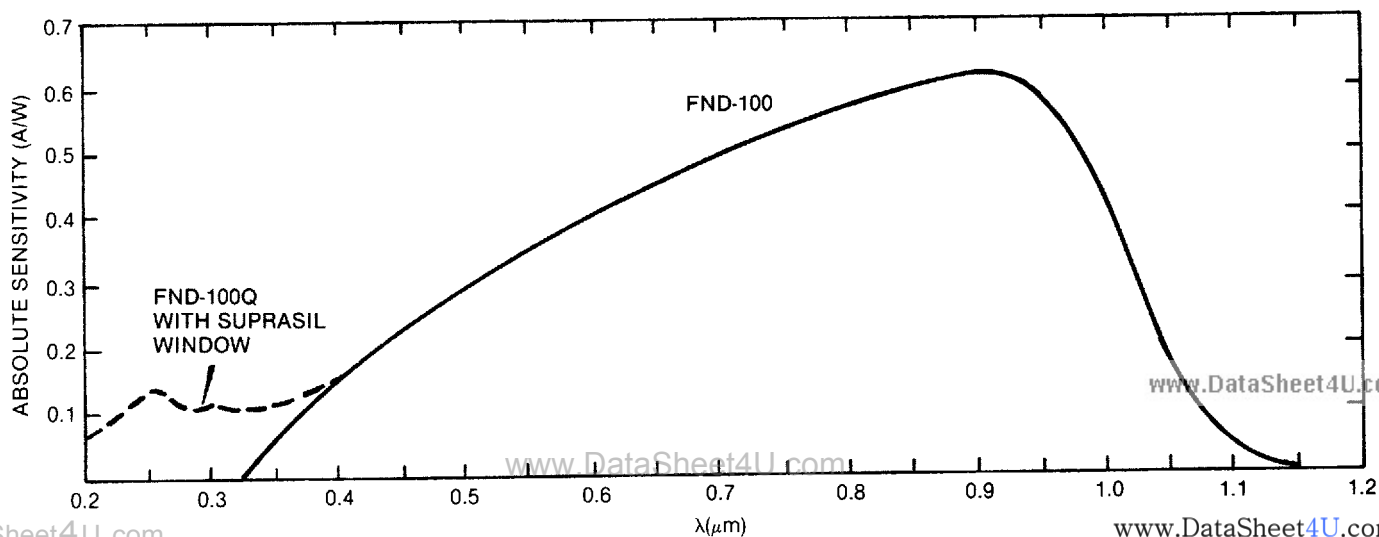
- Large Active Area
- Wide Spectral Range
- Low NEP
- High Responsivity
- Ultra-Fast Rise and Fall Time
- Isolated Photodiode Chip

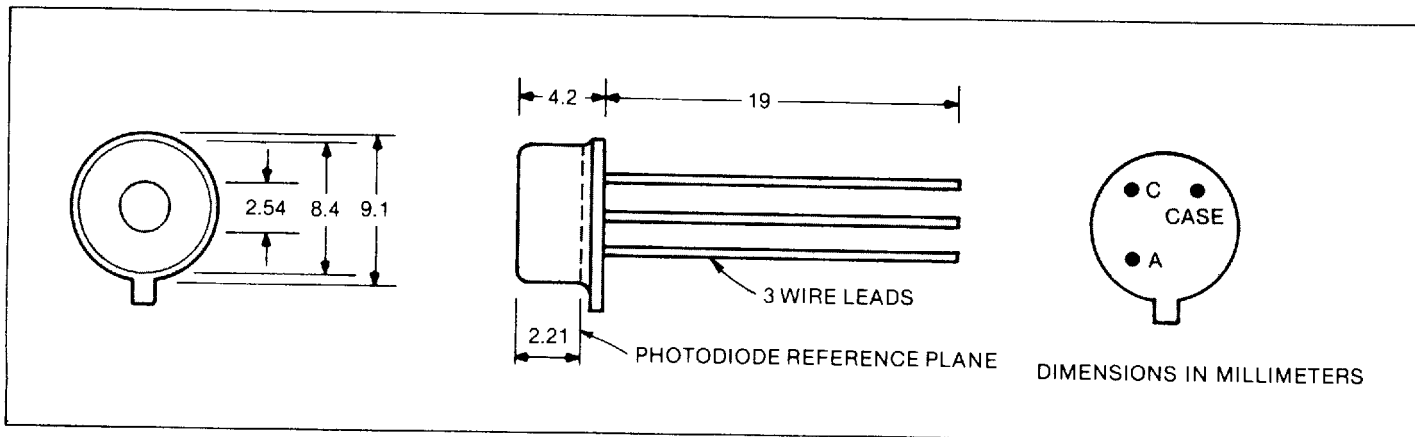
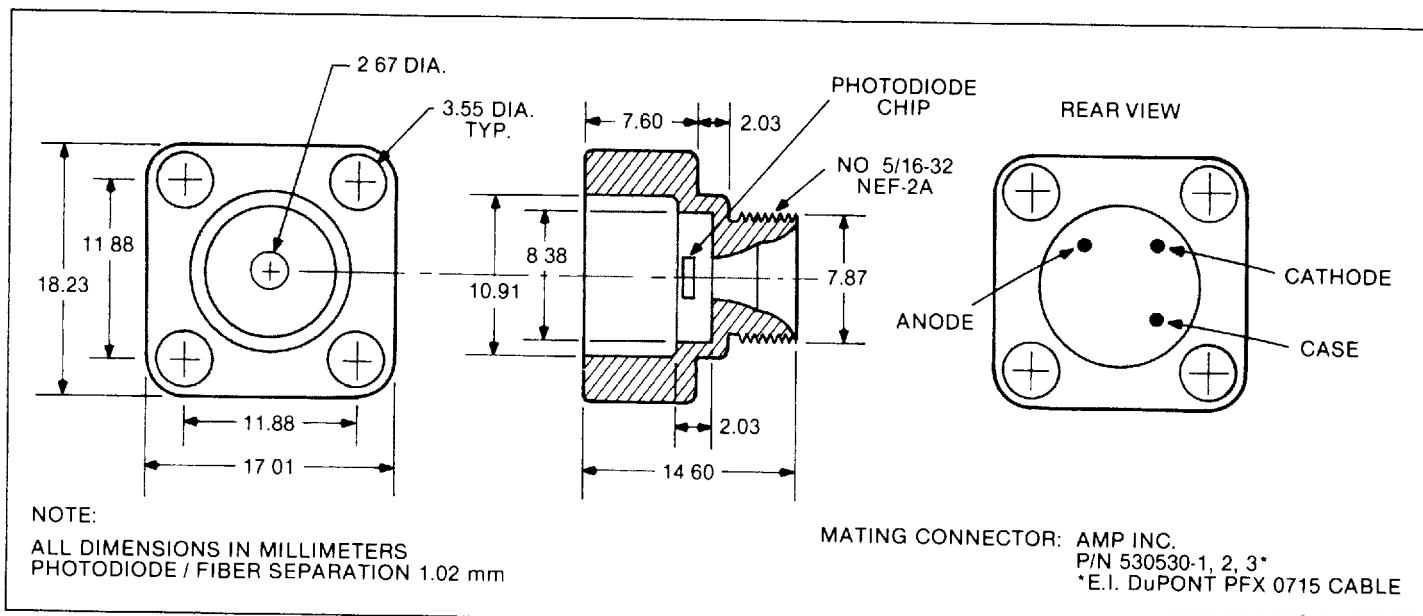
**Operating Data and Specifications at 23°C: Typical Performance at 90 V Bias**

Characteristic	Minimum	Typical	Maximum	Units
Active Area	—	5.1	—	Sq. mm
Spectral Range	400	—	1150	nm
	200	—	1150	nm (FND-100Q)
Responsivity	0.5	0.6	—	A/W at 850 nm
Bandwidth	—	350	—	MHz into 50 ohms
Rise Time	—	<1	—	nS into 50 ohms
Operating Voltage	0	-	100 V	
Breakdown Voltage <sup>1</sup>	125	150	—	V
Capacitance	—	8.5	10	pF
Dark Current	—	10	25	nA
Series Resistance	—	20	—	ohms
Noise Current	—	60	90	$10^{-15}$ A/Hz <sup>1/2</sup> at 1 KHz
NEP (850,10 MHz,1)	—	0.10	0.18	$10^{-12}$ W/Hz <sup>1/2</sup>
Response Linearity	—	—	1	% over 7 Decades
Operating Temperature:				
FND-100	-55	—	+125	°C
FOD-100,FND-100Q	-55	—	+70	°C
Package Style:				
FOD-100, FND-100Q	← TO-5 →			
FOD-100	← AMP 530525-1 →			

**Notes**

1. Breakdown voltage measured at 100 microamps dark current.

**Typical Spectral Response**

**Mechanical Data: FND-100, FND-100Q****Mechanical Data: FOD-100**

The FOD-100 is designed to provide optimum utilization of light collection efficiency and maximum operating bandwidth for applications in communications and data transmission.