

## OG-A-050-25 APD

### Operating Characteristics: Temperature = 25°C

Parameter	Min	Typical	Max	Units
Wavelength Range	1000	-	1630	nm
Responsivity @ M = 1	0.85	0.94	1.05	A/W
Dark Current @ M=10	-	3	20	nA
Operating voltage, Vr @ M=10		40	55	volts
Breakdown Voltage, V <sub>br</sub> (I <sub>d</sub> = 10 μA)	40	50	65	volts
Active Diameter	48	50	52	μm
Capacitance @ M=10	0.22	0.26	0.30	pF
Bandwidth @ M = 5	3.0	3.5	4.0	GHz
Bandwidth @ M = 10	3.0	3.5	4.0	GHz
Bandwidth @ M = 20	2.5	3.0	3.5	GHz
Excess Noise Factor, F @ M=10	-	3.2	3.7	
Excess Noise Factor, F @ M=20	-	5.5	6.0	
Noise Equivalent Power, NEP @ M=10	-	0.02	0.04	pW/Hz <sup>1/2</sup>

### Absolute Maximum Conditions

Parameter	Min	Max	Units
Operating Temp Range	-40	85	°C
Storage Temp Range	-50	95	°C
Max Reverse Current	-	3	mA
Max Forward Current	0	10	mA
Optical Input	-	0	dBm