

## OG-A-080-25 APD

Operating Characteristics: Temperature = 25°C

Parameter	Min	Typical	Max	Units
Wavelength Range	1000	-	1630	nm
Responsivity @ M = 1	0.85	0.94	1.0	A/W
Dark Current @ M=10	-	10	30	nA
Operating voltage, Vr @ M=10		40	55	volts
Breakdown Voltage (Id = 10 $\mu$ A)	40	50	65	volts
Active Diameter	78	80	82	$\mu$ m
Capacitance @ M=10	0.32	0.35	0.4	pF
Bandwidth @ M = 5	2.0	2.5	3.0	GHz
Bandwidth @ M = 10	2.0	2.5	3.0	GHz
Bandwidth @ M = 20	1.5	2.2	2.5	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	-	0.04	0.07	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