



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Active Diameter	A	Φ 75				um
Bandwidth	BW			2.5		GHz
Operating Gain	M		1	15	20	
Reverse breakdown voltage	V _(BR)	I _R =100μA Ev=0lx, Id>0.1mA, T=294K	45	50	55	V
ΔV _{br} /ΔT			34	37	40	Mv/K
Junction Capacitance	C _J	M>3, V _R =V _{BR} *0.9, f=1M	0.35	0.54	0.57	pF
Photo sensitivity@M=10	S _R	λ _p =1.55um, M=10	9.1	10.1	10.4	A/W
		λ _p =1.064um, M=10	6.6	7.3	7.8	
Spectral Application Range	λ _{range}	V _R =10mV	950		1700	nm
Spectral Response-Peak	λ _p	V _R =0V		1064-1550		nm
Excess Noise Factor		M=5		2.1		
		M=10		3.4		
		M=15		4.3		
Noise Spectral Density		M=10		0.45		PA/√Hz
Dark Current		M=10, T=298K	5	19	24	nA
Operation Voltage	V	0.9*V _(BR)				
Absolute Optical Input	I _F	5dBm				
Absolute Reverse Current		3mA				
Absolute Forward Current		3mA				
Operating temperature		-75~+75°C				
Storage temperature		-80~+125°C				

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

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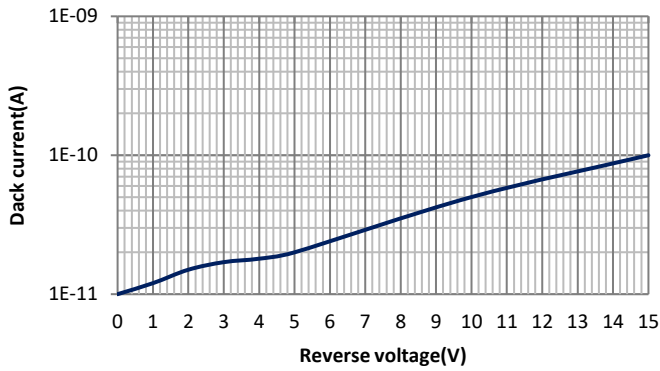
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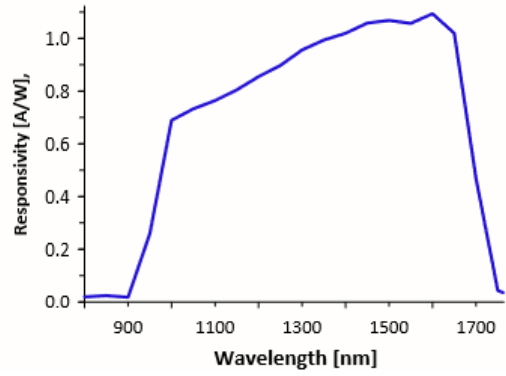


IGA75-APD

■ Dark current vs. reverse voltage

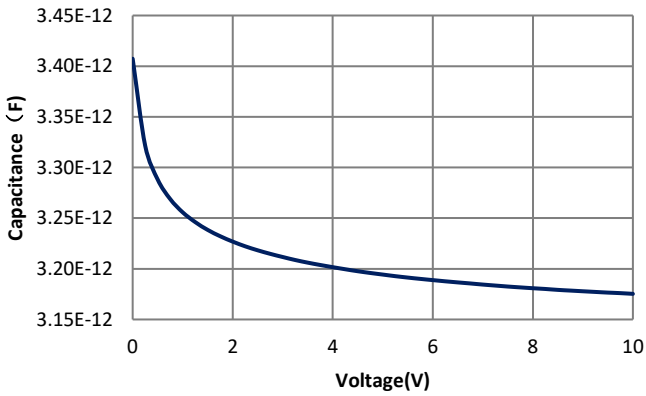


■ Spectral response (M=10)



■ Relative Junction Capacitance

VS. Voltage



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