

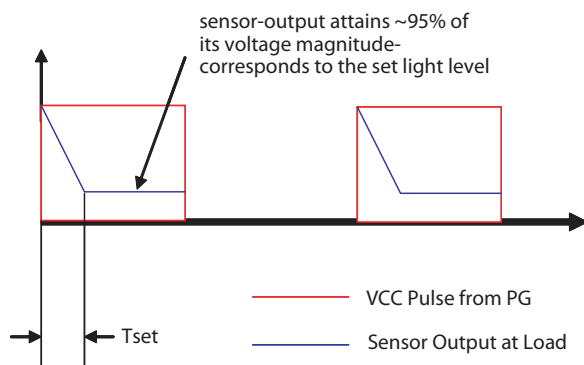
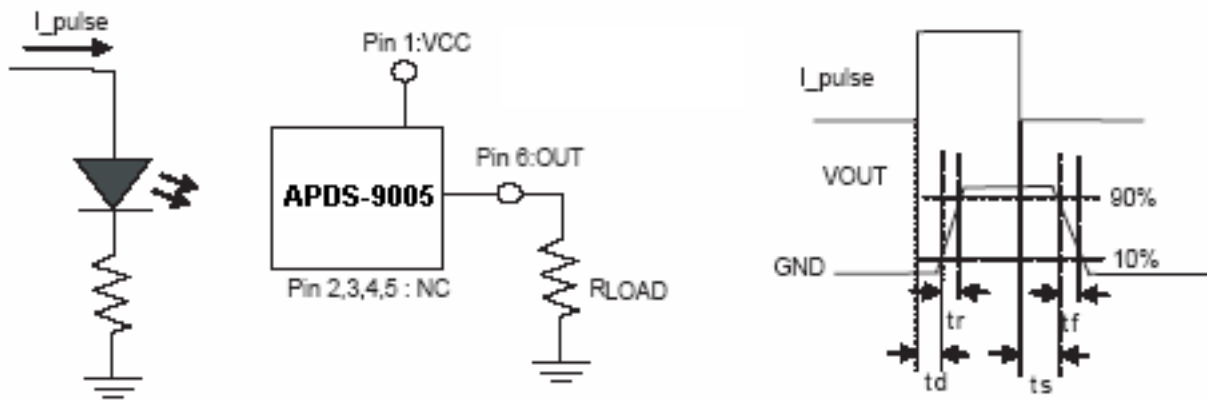
Electrical & Optical Specifications (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Photo Current (I)	I_{PH1}	28	40	52	uA	Vcc=1.8V, Lux = 100 (2)
Photo Current (II)	I_{PH2}	-	44	-	uA	Vcc=1.8V, Lux = 100 (1)
Dark Current	I_{DARK}	-	300	-	nA	Vcc = 3V, Lux = 0
Light Current Ratio	I_{PH3} / I_{PH2}	-	1.1	-	-	
Rise Time	T_r	-	5	-	ms	RI = 1Kohm, Lux = 100
Fall Time	T_f	-	5	-	ms	R1 = 1Kohm, Lux=100
Peak sensitivity wavelength	λ	-	500	-	nm	
Settling Time pulsed at Vcc	T_{set}	-	10	-	ms	Vcc pulsed = 0V to 3V; Rload = 2.4K ohms; Lux = 100 (2)
Propagation delay	T_d	-	5	-	ms	RI = 1Kohm, Lux = 100
Storage delay	T_s	-	5	-	ms	R1 = 1Kohm, Lux=100
Saturation voltage	Vsat	1.0	-	-	V	R1 = 150Kohm, Lux = 100

Note :

- 1) Illuminance by incandescent lamp
- 2) White LED is used as light source

Light Measurement Circuit and Waveforms



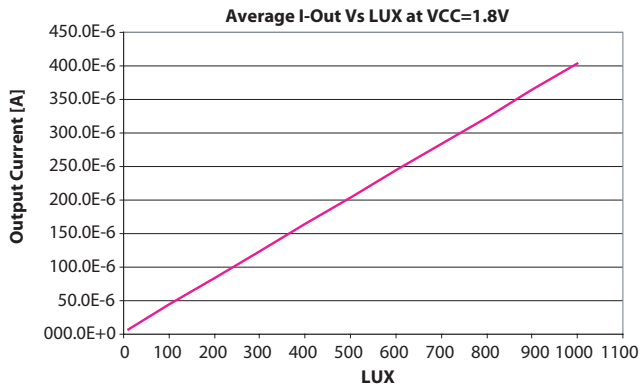


Figure 3. Average Iout Vs Lux (Vcc = 1.8V, T=25°C, White LED source)

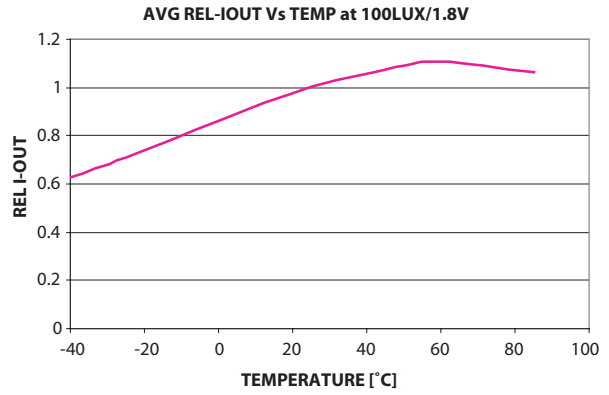


Figure 4. Average relative Iout Vs Temp (Vcc = 1.8V, T=25°C, 100 Lux)

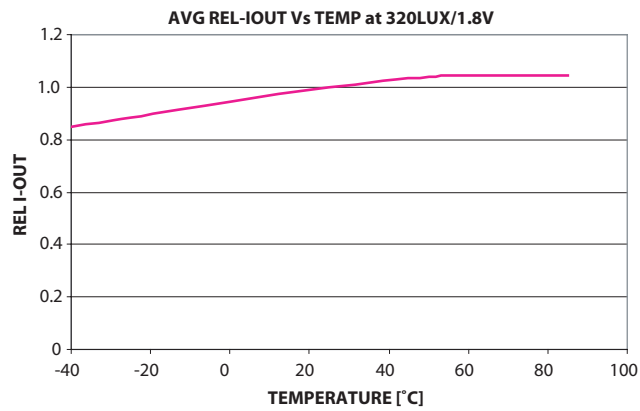


Figure 5. Relative Output Current Vs Temp (Vcc = 1.8V, 100 Lux)

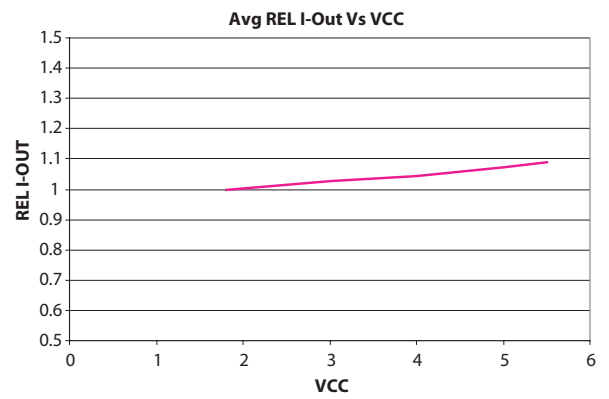


Figure 6. Relative Output Current Vs Vcc (Ta = 25°C, 100Lux)

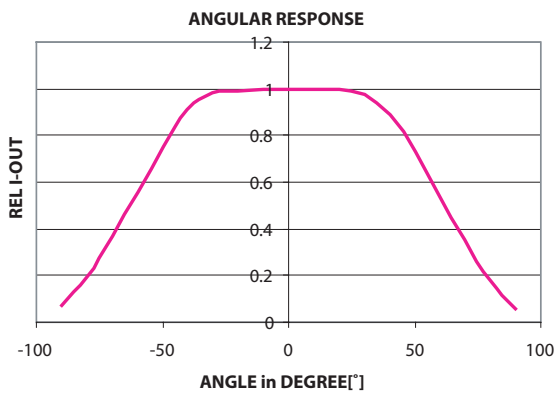


Figure 7. Relative Iout Vs Angle (Vcc = 1.8V, Ta = 25°C)

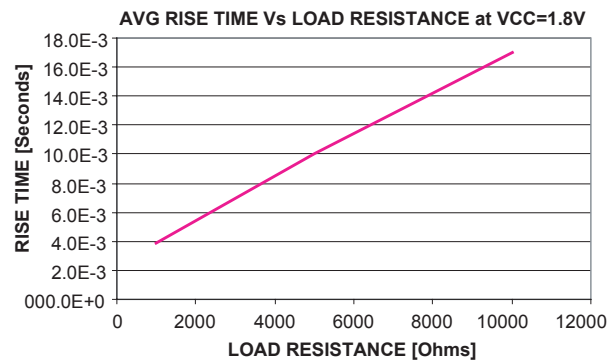


Figure 8. Average Rise Time Vs Load Resistance at Vcc = 1.8V