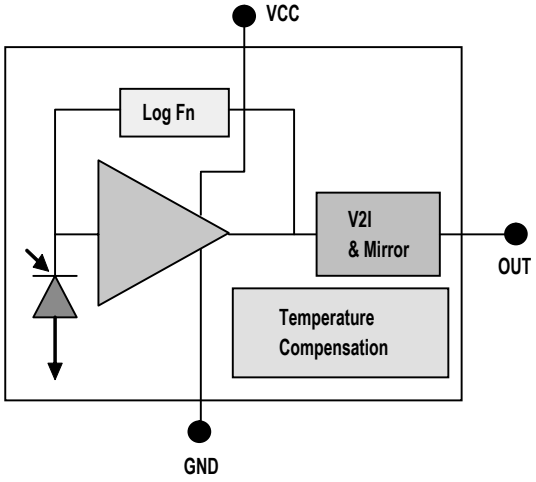
Electrical & Optical Specifications (Ta=25C) :

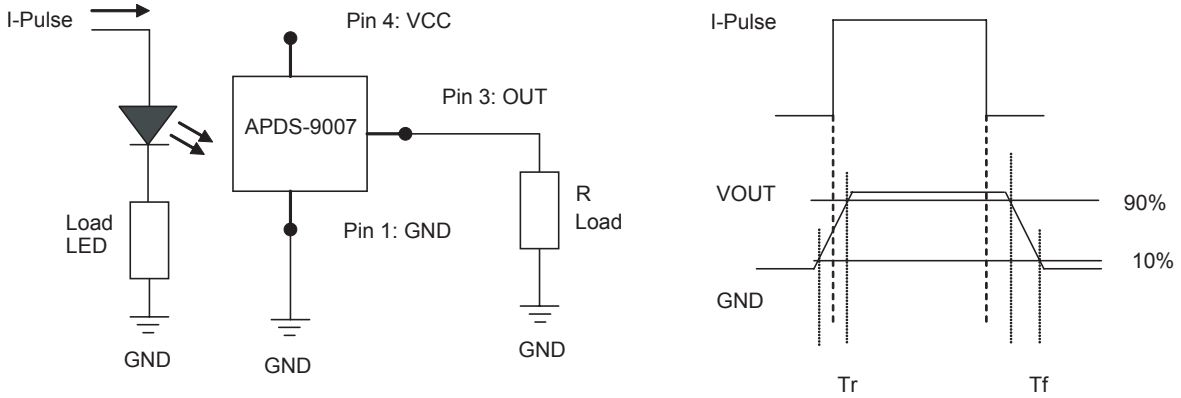
Parameter	Symbol	Min.	Typ.	Max.	Units	Conditions
Supply Current	Icc		230		µA	LUX=1K, Vcc=3V
Photo Current output (I)	$I_{\_PH1}$	21	30	39	uA	Lux=1K, Vcc=3V (Note 1,3)
Photo Current output (II)	$I_{\_PH2}$		36			Lux=1K, Vcc=3V (Note 2,3)
Light Current Ratio	$I_{\_PH2} / I_{\_PH1}$		1.2			
Rise Time	Tr		0.2		mSec	Rload = 27K ohms, 1K lux,Vcc = 3V
Fall Time	Tf		0.2		mSec	Rload = 27K ohms, 1K lux, Vcc = 3V
Peak sensitivity wavelength	λ		560		nm	
SD Current	Icc-SD			1	µA	Vcc=3V, SD=3V
Output Compliance Voltage	Vout	Vcc-0.5			Volts	RLoad=100K, Vcc=3V (Refer Figure 7)

Notes :
1. White LED is used as light source
2. Illuminance by incandescent lamp
3. Photo Current (I out) = 10uA x Log (Lux)

Functional Block Diagram



Light Measurement Circuit and Waveforms



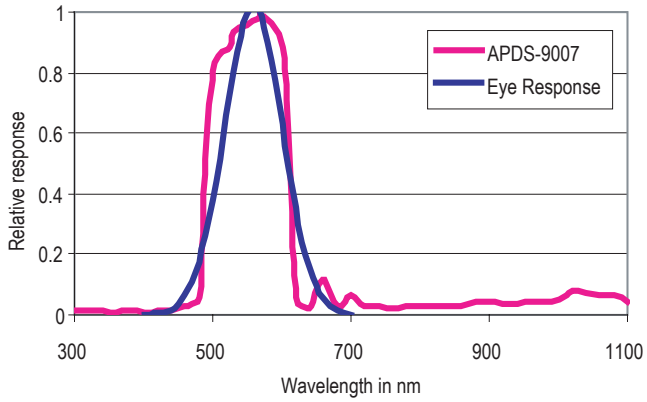


Figure 1. Spectral Response

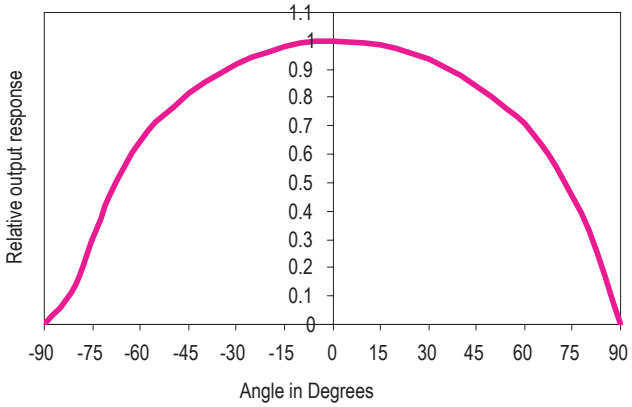


Figure 2. Angular Response plot

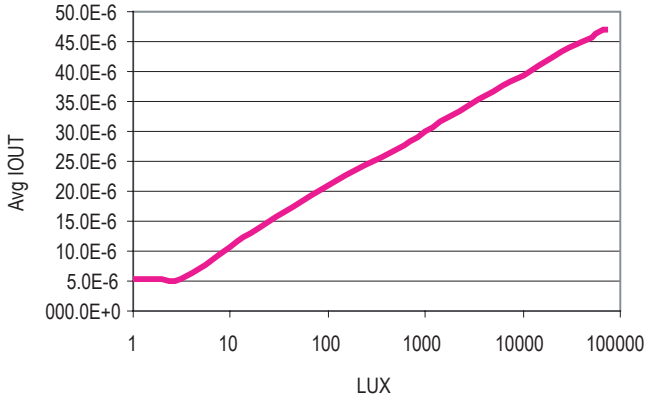


Figure 3. Average Iout vs Lux ,T=25°C

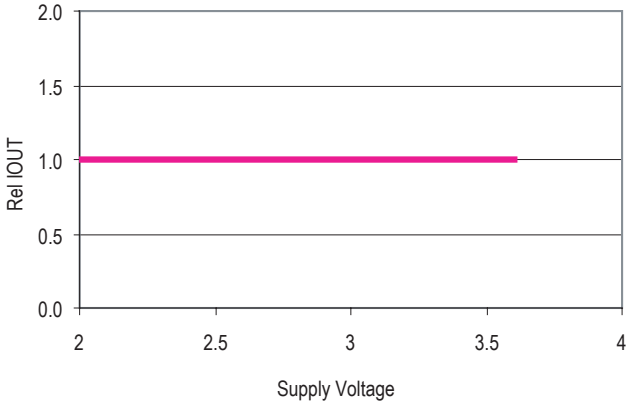


Figure 4. Relative Iout Vs Vcc @ 1K LUX , T=25°C

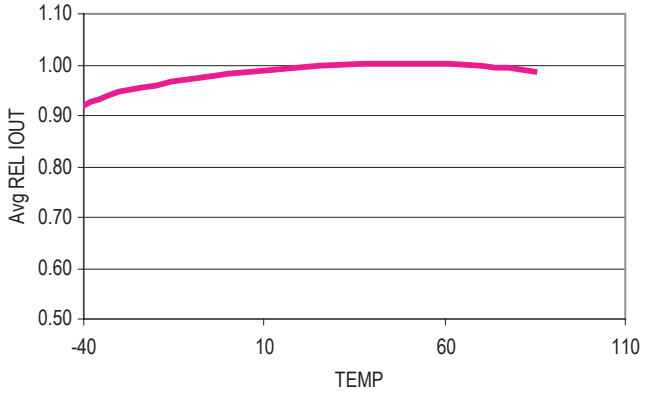


Figure 5. Relative Iout Vs Temperature

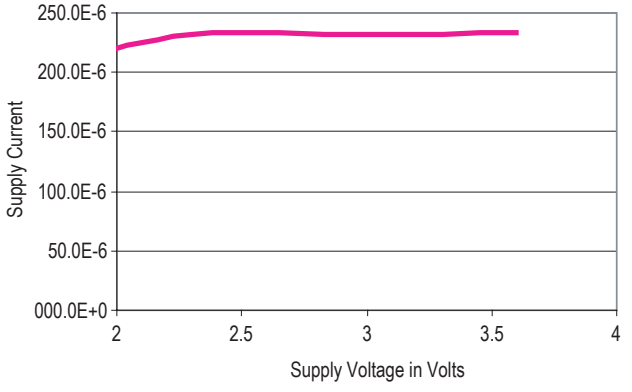


Figure 6. Icc Vs Vcc, T=25°C