



# LAMP/PHOTOCELL MODULES

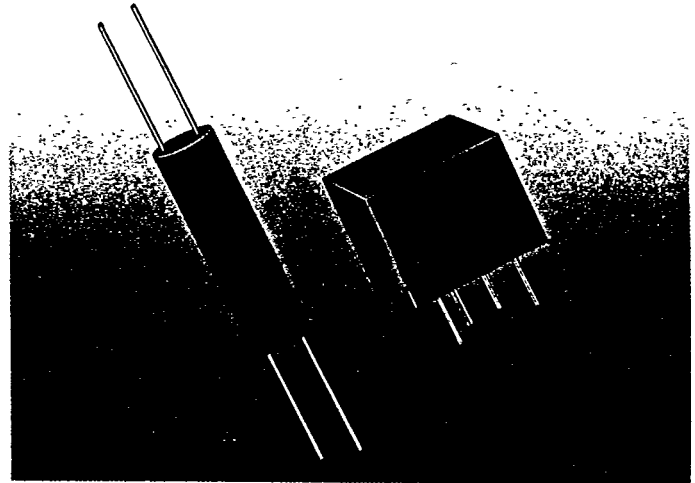
## FEATURES

- AC Compatibility
- High voltage isolation up to 7500V
- Photocell detectors rated at up to 320V
- Multiple tracking detectors available
- Incandescent or Neon lamp emitters
- Temperature Range: - 60° C to +65° C

PL, PLT SERIES

## GENERAL DESCRIPTION

Lamp/photocell modules are available with incandescent or neon lamps optically coupled with a fast response CdSe photoconductive cell. Two mechanical packages are available: a "PL" package and a "PLT" tubular version. A single emitter can be coupled to multiple detectors, to a maximum of four, in the "PL" package. The "PLT" package is a single channel module with extremely high inherent isolation.

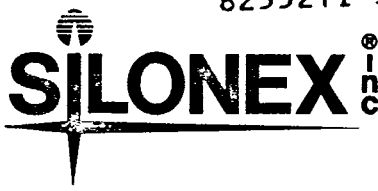


These modules, in addition to providing input-output isolation, can be operated in a digital on-off mode or in an analog proportional control manner over a wide range of resistances. Applications include isolation, noiseless switching, automatic gain control, signal modulators for audio effects, audio limiting and photochoppers.

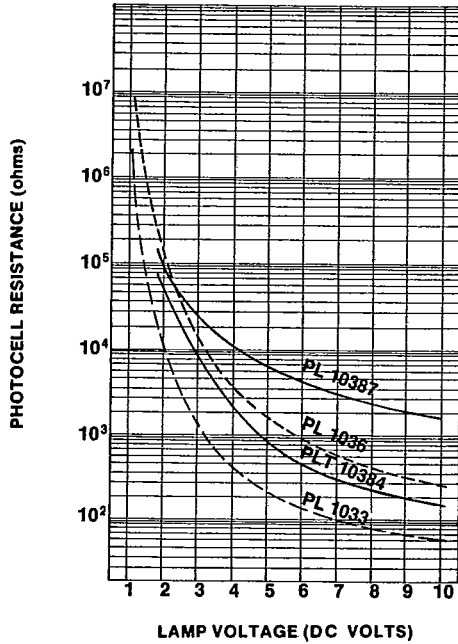
Silonex Part No.	Lamp Specification		PHOTOCELL CHARACTERISTICS							Emitter/ Detector Isolation Voltage <sup>(4)</sup> Peak AC or DC	
			Resistance		Maximum Ratings			Time Response (ms)			Typ. Cap. (pF)
	Volts	mA	Max. on (ohms)	Min. Dark <sup>(2)</sup> (ohms)	Volts	Current (mA)	Power Dissipation (mW) <sup>(3)</sup>	to 90% on	to 1% off		
PL-1033	10 <sup>(1)</sup>	15	100	10M	80	100	250	50	75	15	3000
PL-1036	10 <sup>(1)</sup>	15	400	50M	320	75	250	50	75	15	3000
PLT-10384	10 <sup>(1)</sup>	15	250	10M	80	20	100	90	125	4	7500
PLT-10387	10 <sup>(1)</sup>	15	3K	50M	320	70	100	90	100	4	7500
PL-2H33	200	2 <sup>(5)</sup>	100	10M	80	100	250	300	30	15	3000
PL-2H36	200	2 <sup>(5)</sup>	400	50M	320	75	250	300	30	5	3000
PLT-2H384	200	2 <sup>(5)</sup>	500	10M	80	20	100	300	30	4	7500
PLT-2H387	200	2 <sup>(5)</sup>	10K	50M	320	70	100	300	30	4	7500

## NOTES:

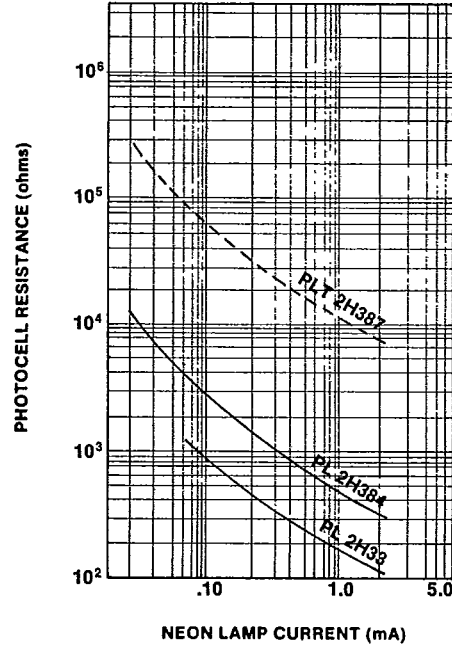
- (1) Lamp life at 10V - 10,000 hours.
- (2) 15 seconds after removal of lamp voltage
- (3) Power rating applies at 25° C linearly derated to zero at 65° C.
- (4) Typical capacitive coupling between lamp and photocell 1.5 pf
- (5) Series resistor required to limit current to value specified. Lamp life at 2mA - 5,000 hours.



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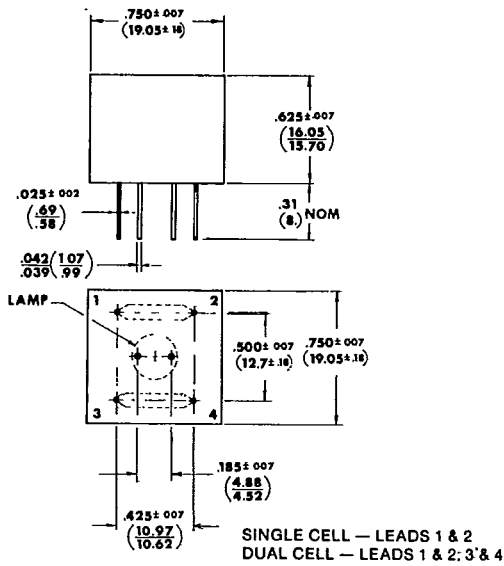


Incandescent Lamp/  
Photocell Module  
Transfer Characteristic

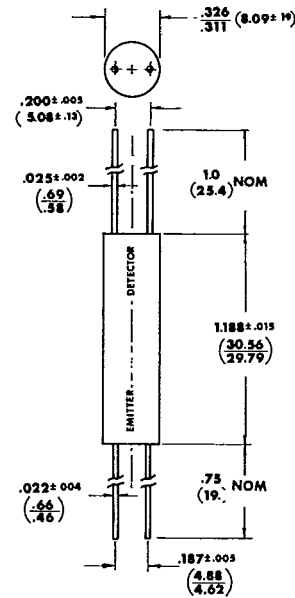


Neon Lamp/Photocell Module  
Transfer Characteristic

### PL Package



### PLT Package



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