

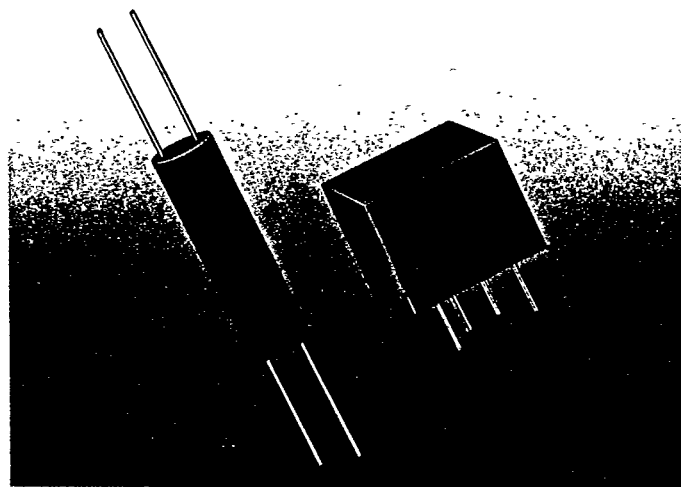


LAMP/PHOTOCELL MODULES

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 ⁽⁴⁾ Peak AC or DC
			Resistance		Maximum Ratings			Time Response (ms)		Typ. Cap. (pF)	
	Volts	mA	Max. on (ohms)	Min. Dark ⁽²⁾ (ohms)	Volts	Current (mA)	Power Dissipation (mW) ⁽³⁾	to 90% on	to 1% off		
PL-1033	10 ⁽¹⁾	15	100	10M	80	100	250	50	75	15	3000
PL-1036	10 ⁽¹⁾	15	400	50M	320	75	250	50	75	15	3000
PLT-10384	10 ⁽¹⁾	15	250	10M	80	20	100	90	125	4	7500
PLT-10387	10 ⁽¹⁾	15	3K	50M	320	70	100	90	100	4	7500
PL-2H33	200	2 ⁽⁵⁾	100	10M	80	100	250	300	30	15	3000
PL-2H36	200	2 ⁽⁵⁾	400	50M	320	75	250	300	30	5	3000
PLT-2H384	200	2 ⁽⁵⁾	500	10M	80	20	100	300	30	4	7500
PLT-2H387	200	2 ⁽⁵⁾	10K	50M	320	70	100	300	30	4	7500

NOTES:

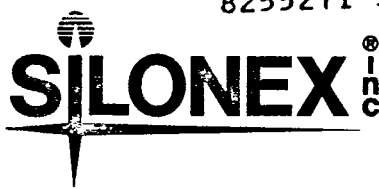
(1) Lamp life at 10V -10,000 hours.

(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.



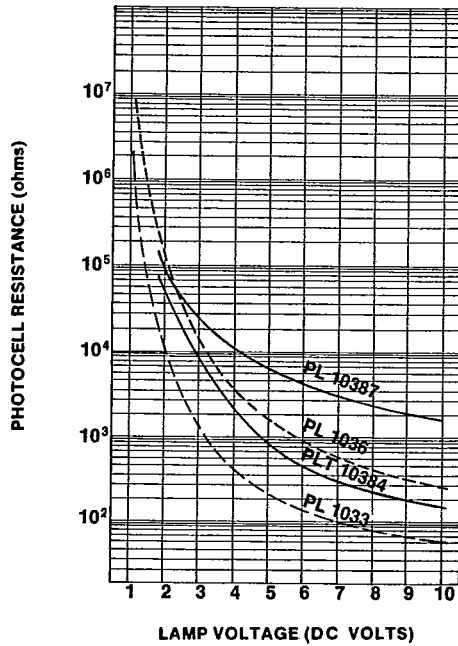
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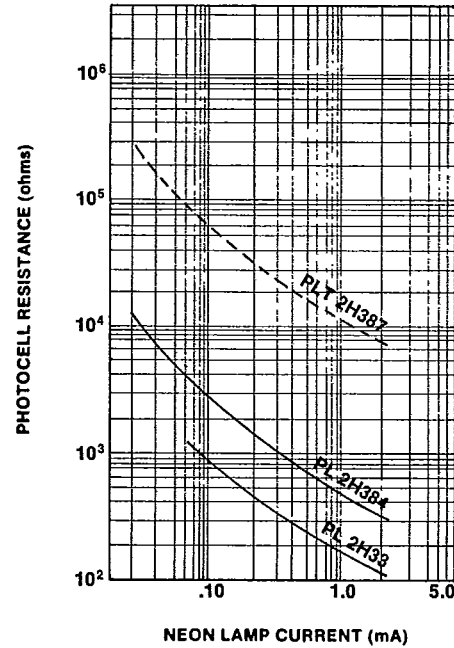
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PL, PLT SERIES

LAMP/PHOTOCELL MODULES

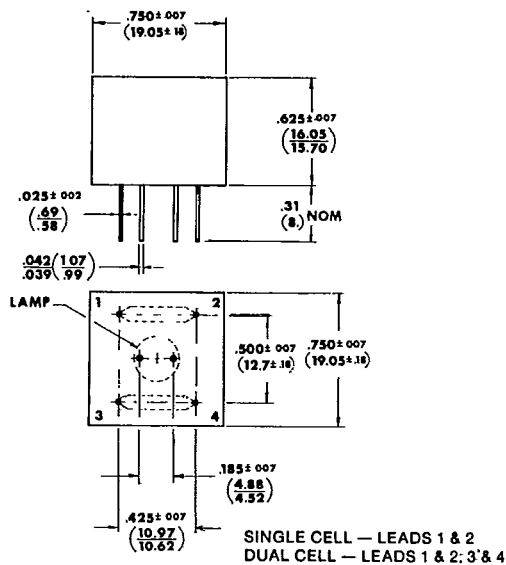


Incandescent Lamp/
Photocell Module
Transfer Characteristic

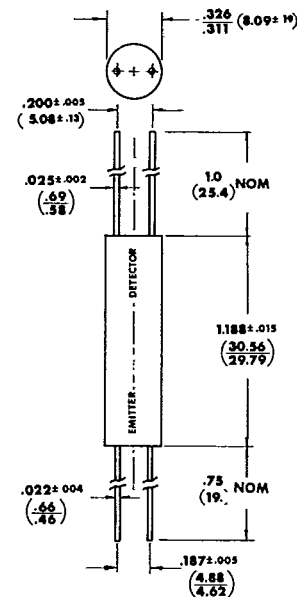


Neon Lamp/Photocell Module
Transfer Characteristic

PL Package



PLT Package



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Subject to change without notice

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