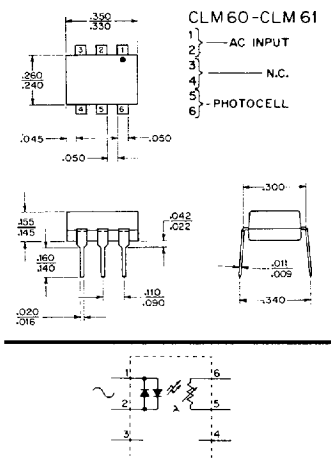


CLM60  
CLM61

Dual LED-  
Photoconductor  
Dip Isolators

The CLM60 and CLM61 incorporate two GaP LEDs connected in inverse parallel and coupled to a photoconductive cell, thereby featuring an A.C. signal input capability. The photoconductive cell outputs feature 250V PAC ratings, and both units have 2500V PAC isolation levels, along with 1 Meg ohm minimum Off Resistances. Controlled resistances are featured at 16mA and 1mA respectively. These components are recognized under the Component Program of Underwriters' Laboratories Inc.



TECHNICAL DATA

LED	CHARACTERISTICS	TEST CONDITIONS	Min.	CLM60 Typ.	Max.	Min.	CLM61 Typ.	Max.	UNITS
I <sub>F</sub> max.	Maximum forward current				40			40	mA
V <sub>F</sub>	Forward voltage	I <sub>F</sub> = 16mA	2.0		2.5	2.0		2.5	volts
PHOTOCELL V <sub>MAX</sub>	Cell voltage				250			250	volts DC or PAC
P ①	Power dissipation	25° C			50			50	milliwatts
PHOTOMOD R <sub>ON</sub> ②	On resistance	I <sub>F</sub> = 1mA I <sub>F</sub> = 16mA		7.5K 2K	4K		1.75K	7K	ohms
R <sub>OFF</sub>	Off resistance	5 sec. after I <sub>F</sub> → 0 4 VDC on cell	1 Meg.			1 Meg.			ohms
t <sub>R</sub> ③	Rise time	Time to 63% of final condition at I <sub>F</sub> = 16 mA		500			500		μ sec
t <sub>D</sub> ④	Decay time	Time to 100K		60			60		milliseconds
V <sub>BD</sub>	Isolation		2500			2500			volts DC or PAC
dRc/dt	Cell temperature coefficient	I <sub>F</sub> > 1mA		1			1		%/° C

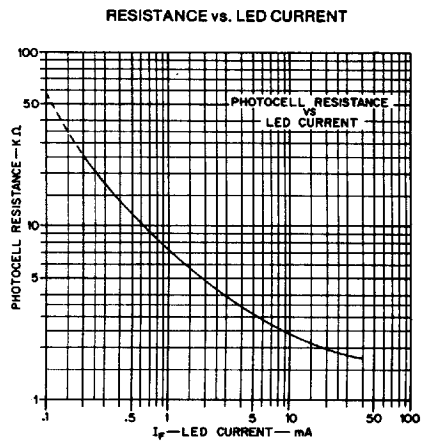
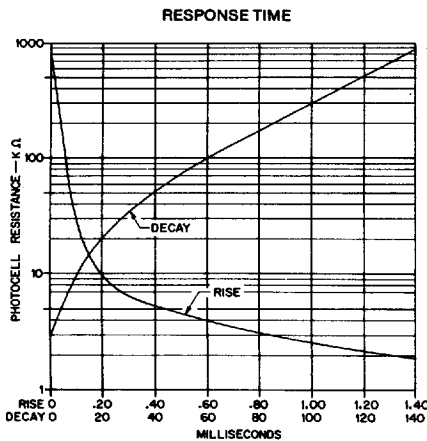
Temperature Storage — 40° to 75° C

Absolute Maximum Ratings:

Operating — Derate power to 0 at 75° C

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## PC-LED PHOTOMOD SLOPE CHARACTERISTICS



### RESPONSE TIME

The  $t_{RISE}$  and  $t_{DECAY}$  curve is the response time of the module when the lamp current is instantaneously varied from either zero to rated lamp current ( $t_{RISE}$ ) or rated lamp current to zero ( $t_{DECAY}$ ).

These curves are representative characteristics. For specific specifications, please contact the factory.

### Notes:

- ① P.D. at 25°C case temperature. Derate linearly to 0 at 75°C. Allowable PHOTOMOD dissipation is determined by the photocell temperature which must not exceed 75°C for continuous operation.
- ② After 24 hours on.
- ③ Rise time measured after 24 hours on + 5 seconds off.
- ④ Decay time measured from 24 hours on.

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