

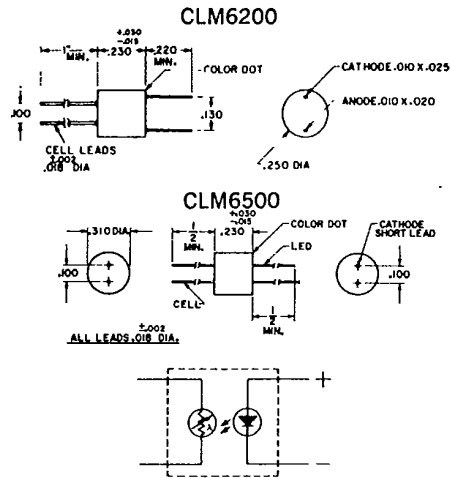
T-41-81

CLM6200
CLM6500LED-
Photoconductor
Isolators

This PHOTOMOD® Series combines solid state lamps with Clairex® photoconductive cells in small, rugged axial-lead isolators.

The CLM 6200 features linear output characteristics over a wide input current range and is ideally suited for analog applications.

The CLM 6500 features low output resistance levels with low input current levels. The unit is ideally suited for AGC application.



TECHNICAL DATA

LED	CHARACTERISTICS	TEST CONDITIONS	Min. CLM6200 Typ. Max.	Min. CLM6500 Typ. Max.	UNITS
I_F max.	Maximum forward current		40	40	mA
V_F	Forward voltage	$I_F = 16$ mA	2.0	2.5	volts
I_R	Reverse current	$V_R = 4$ V	100	3	μ A
PHOTOCELL V_{MAX}	Cell voltage		60	100	volts DC or PAC
P ①	Power dissipation	25°C	50	50	milliwatts
PHOTOMOD R_{ON} ②	On resistance	$I_F = 20$ mA $I_F = 10$ mA	10 K	400	ohms onms
R_{OFF}	Off resistance	10 sec. after $I_F \rightarrow 0$ 10VDC on cell	10 Meg	10 Meg	ohms
t_R ③	Rise time	Time to 63% of final condition at $I_F 16$ mA	3.5	5	milliseconds
t_D ④	Decay time	Time to 100K	12	80	milliseconds
V_{BD}	Isolation		2000	2000	volts DC or PAC
dRc/dt	Cell temperature coefficient	$I_F \geq 5$ mA	0.6	0.7	%/°C

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Temperature Storage — 40° to 75°C

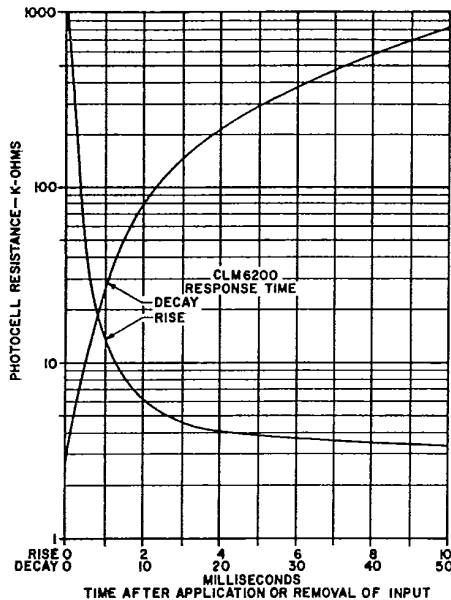
Absolute Maximum Ratings:

Operating — Derate power to 0 at 75°C

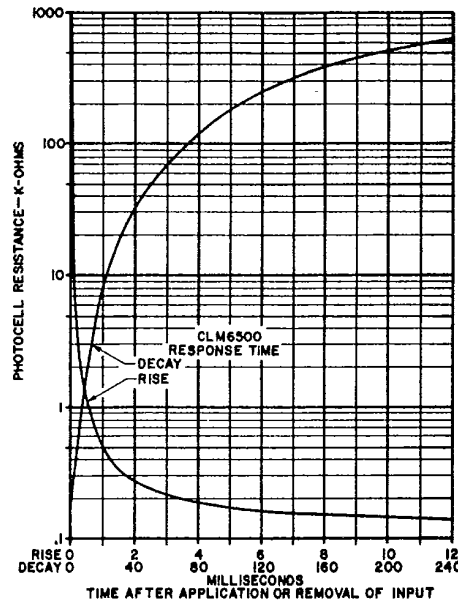
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PC-LED PHOTOMOD SLOPE CHARACTERISTICS

CLM6200



CLM6500



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.

