

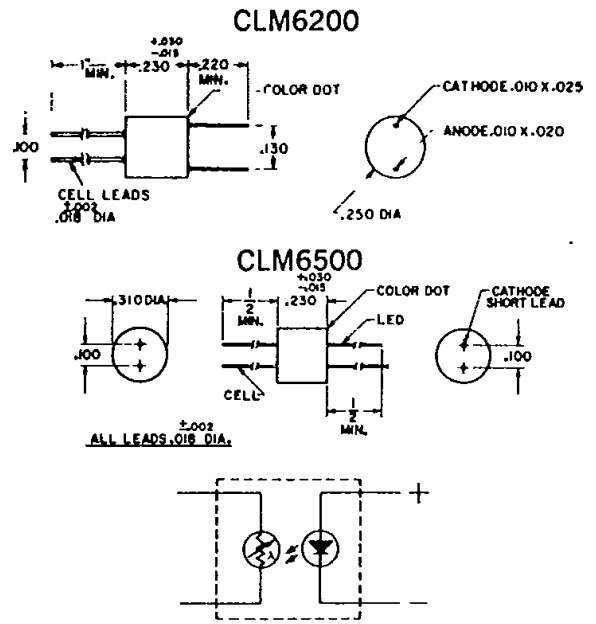
# CLM6200 CLM6500

## LED- 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	CLM6200			CLM6500			UNITS
			Min.	Typ.	Max.	Min.	Typ.	Max.	
$I_F$ 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	$\mu$ 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	

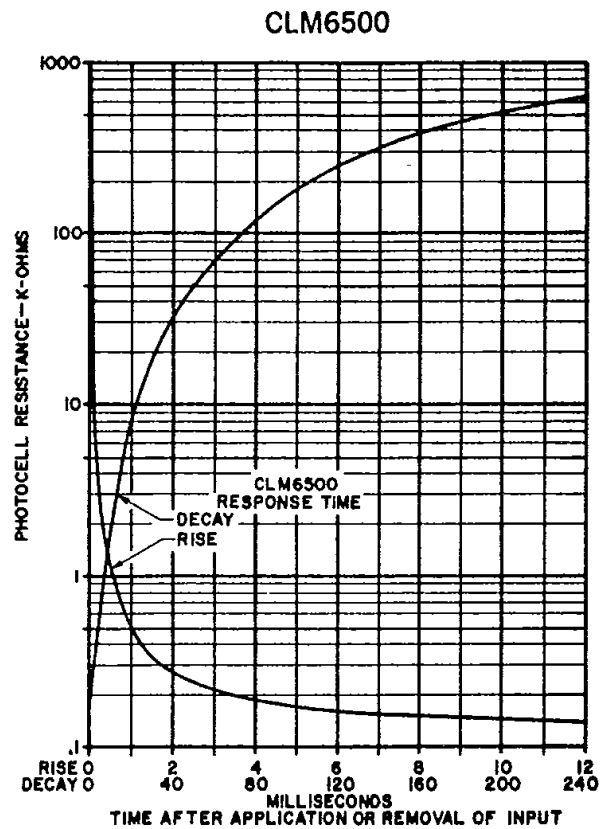
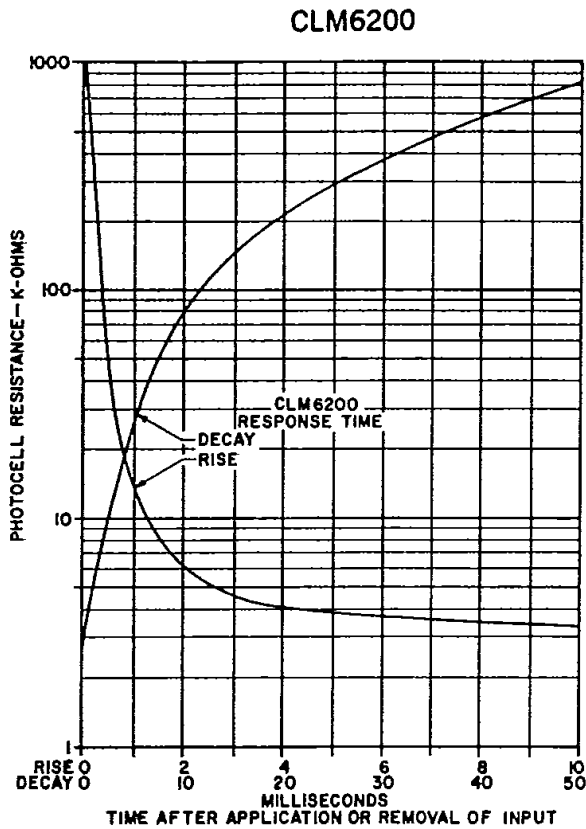
Temperature Storage — 40° to 75°C

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.

