T-41-81

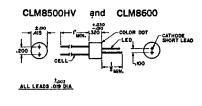
CLM8500HV **CLM8600** LED-

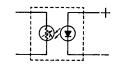
Photoconductor Isolators

This new PHOTOMOD® Series combines solid state lamps with Clairex® photoconductive cells in small,

rugged axial-lead isolators.
The CLM8500HV utilizes a hermetic photocell output for stringent industrial applications. The isolator is ideal for triac control, and TTL interfacing. The 400V PAC cell rating provides line voltage protection.

The CLM8600 utilizes a plastic photocell output with a 500V PAC rating and 3.0KV PAC unit isolation rating. It is ideal for line voltage isolation, speed controls, triac control and interfacing for low level logic functions.





TECHNICAL DATA

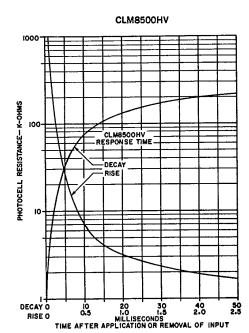
LED	CHARACTERISTICS	TEST CONDITIONS	CLM8500HV Min. Typ. Max.	CLM8600 % Max.	UNITS
Î _F max.	Maximum forward current		40	40	mA
V _F	Forward voltage	I _F = 16 mA	2,5	2.5	volts
I _R	Reverse current	V _R =. 4 V	3	3	μΑ
PHOTOCELL V _{MAX}	Cell voltage		400	500	voits DC or PAC
Р	Power dissipation	25°C	125	100	milliwatts
PHOTOMOD R _{ON} ①	On resistance	$I_{\rm F}=16{\rm mA}$	5K	2K	ohms
R _{OFF}	Off resistance	10 sec. after I _F → 0 400 VDC 10 VDC	10 Meg	10 Meg	ohms ohms
t _R ①	Rise time	Time to 63% of final condition at I _F = 16 mA	3.5	3.5	milliseconds
t _D ①	Decay time	Time to 100K	40	40	milliseconds
V _{BD}	Isolation		2000	3000	volts DC or PAC
dRc/dt	Cell temperature coefficient	I _F ≧ 5 mA	.7	.7	%/°C

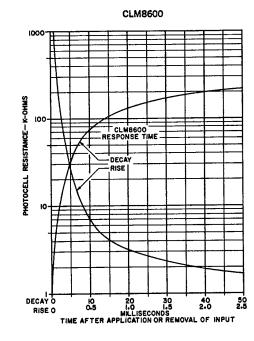
Temperature Storage --- 40° to 75°C

Absolute Maximum Ratings:

Operating — Derate power to 0 at 75°C

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.
- Rise time measured after 24 hours on + 5 seconds off.
- (4) Decay time measured from 24 hours on.

