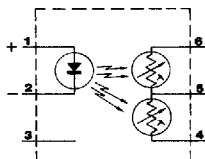
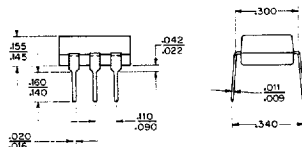
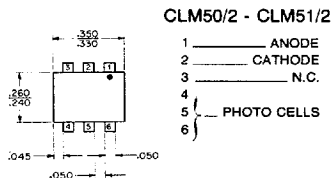


LED — DUAL Photoconductor Dip Isolators

CLM50/2
CLM51/2



The CLM50/2 and CLM51/2 incorporate a GaP LED coupled with a dual photoconductive cell to provide a dual output opto-isolator. Both devices provide line voltage output capability of 250 PAC on each cell, isolation voltage of 2500V PAC and minimum OFF Resistances of 1 Megohm. Cell resistances are specified at 1 ma and 16 ma drive currents. These devices are particularly suitable for critical automatic gain controls in audio circuits. Both devices are recognized under the Component Program of Underwriters' Laboratories.

TECHNICAL DATA

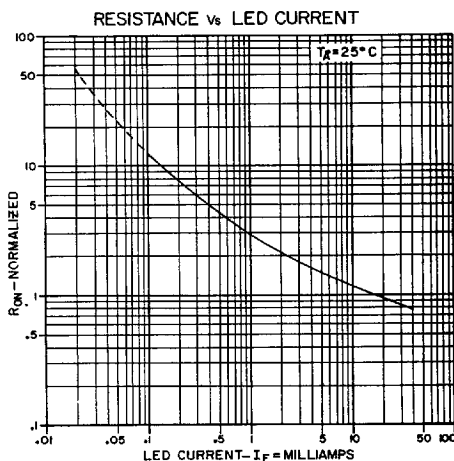
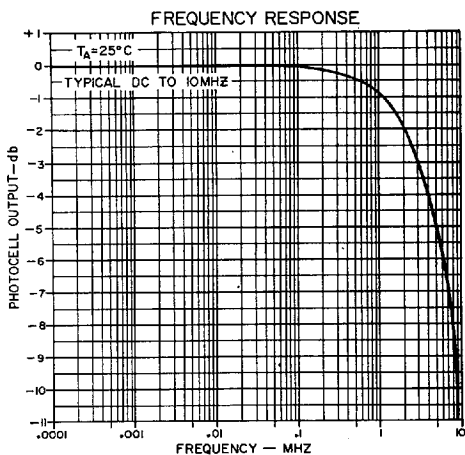
Led	Characteristics	Test Conditions	Min.	CLM50/2 Typ.	Max.	Min.	CLM51/2 Type.	Max.	Units
I_F MAX	Maximum forward current				40			40	mA
V_F	Forward voltage	$I_F = 16$ mA		2.0	2.5		2.0	2.5	volts
I_R	Reverse current	$V_R = 3$ V			10			10	μ A
PHOTOCELL V_{MAX}	Cell voltage		250			250			volts DC or PAC
P ①	Power dissipation	25°C			50			50	milliwatts
M	Cell matching	$I_F = 1$ mA		1.5:1			1.5:1		
C	Cell capacitance	OV, 1MHZ		0.2			0.2		pf
PHOTOMOD R_{ON} ①	On resistance	$I_F = 1$ mA $I_F = 16$ mA		5K	2.5K		1.25K	4.5K	ohms
R_{OFF}	Off resistance	5 sec. after $I_F \rightarrow 0$ 4 VDC on cell	1 Meg.			1 Meg.			ohms
t_R ①	Rise time	Time to 63% of final condition at $I_F = 16$ mA		500			500		μ sec
t_D ①	Decay time	Time to 100K		60			60		milliseconds
V_{BO}	Isolation		2500			2500			volts DC or PAC
C_{IO}	Input-Output capacitance	OV, 1MHZ		1.5			1.5		pf
dRc/dt	Cell temperature coefficient	$I_F = 1$ mA		1			1		%/°C

Temperature Storage — 40°C to 75°C

Absolute Maximum Ratings:

Operating — Derate power to 0 at 75°C

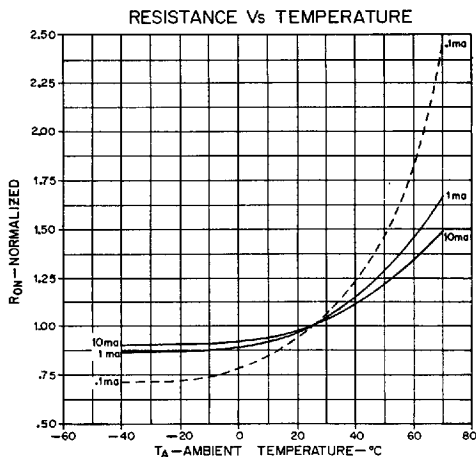
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RESPONSE TIME

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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