

FEATURES

- · Visible light response
- Sintered construction
- · Low cost

DESCRIPTION

The **PDV-P5002** are (CdS), Photoconductive photocells designed to sense light from 400 to 700 nm. These light dependent resistors are available in a wide range of resistance values. They're packaged in a two leaded plastic-coated ceramic header.

APPLICATIONS

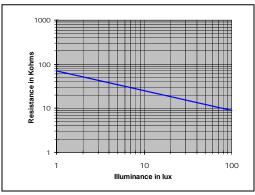
- · Camera exposure
- · Shutter controls
- Night light Controls

CELL RESISTANCE VS. ILLUMINANCE

ABSOLUTE MAXIMUM RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V_{pk}	Applied Voltage		350	V
P _{d Δpo/Δt}	Continuous Power Dissipation		400	mW/°C
To	Operating and Storage Temperature	-30	+75	°C
T _S	Soldering Temperature*		+260	°C

^{* 0.200} inch from base for 3 seconds with heat sink.



ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R _D	Dark Resistance	After 10 sec. @ 10 Lux @ 2856 °K	0.5			$\mathbf{M}\Omega$
R _I	Illuminated Resistance	10 Lux @ 2856 °K	12		30	K Ω
S	Sensitivity	LOG(R100)-LOG(R10)** LOG(E100)-LOG(E10)***		0.75		$\Omega/{\sf Lux}$
λ range	Spectral Application Range	Flooded	400		700	nm
λ peak	Spectral Application Range	Flooded		520		nm
t _r	Rise Time	10 Lux @ 2856 °K		55		ms
T _f	Fall Time	After 10 Lux @ 2856 °K	•	25		ms

^{**}R100, R10: cell resistances at 100 Lux and 10 Lux at 2856 °K respectively .

^{***}E100, E10: luminances at 100 Lux and 10 Lux 2856 °K respectively.