



**DESCRIPTION**

The **PDV-P5001** 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.

**FEATURES**

- Visible light response
- Sintered construction
- Low cost

**RELIABILITY**

Contact Luna for recommendations on specific test conditions and procedures.

**APPLICATIONS**

- Camera exposure
- Shutter controls
- Night light controls

**ABSOLUTE MAXIMUM RATINGS**

SYMBOL	MIN		MAX	UNITS	
Applied Voltage	-	-	350	V	$T_a = 23^{\circ}\text{C}$ UNLESS OTHERWISE NOTED
Continuous Power Dissipation	-	-	400	mW/°C	-
Operating and Storage Temperature	-30	to	+75	°C	-
Soldering Temperature*	-	-	+260	°C	-

\* 0.200 inch from base for 3 seconds with heat sink.

**OPTO-ELECTRICAL PARAMETERS**

T<sub>a</sub> = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Resistance	After 10 sec. @ 10 Lux @2856°K	0.3	-	-	MΩ
Illuminating Resistance	10 Lux @ 2856 °K	8	-	16	KΩ
Sensitivity	$\frac{\text{Log}(R100) - \text{Log}(R10) **}{\text{Log}(E100) - \text{Log}(E10) ***}$	-	0.6	-	Ω/Lux
Spectral Application Range	Flooded	400	-	700	Nm
Spectral Application Range	Flooded	-	520	-	Nm
Rise Time	10 Lux @ 2856 °K	-	55	-	Ms
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.

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