

**DESCRIPTION**

The **PDV-P8107** 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	(TA)= 23°C UNLESS OTHERWISE NOTED
Applied Voltage	-	-	150	V	-
Continuous Power Dissipation	-	-	100	mW/°C	-
Operation and Storage Temperature	-30	to	+75	V	-
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

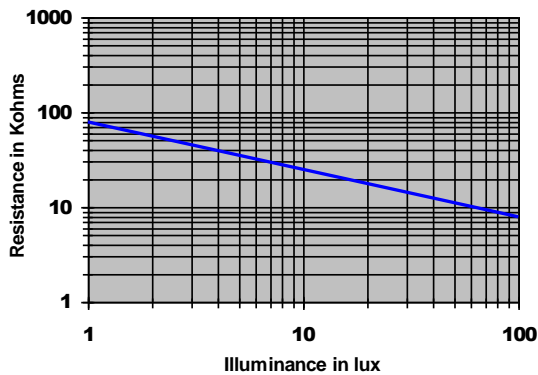
PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Resistance	After 10 sec. @ 10 Lux @ 2856°K	20	-	-	MΩ
Illuminated Resistance	10 Lux @ 2856°K	80	-	240	KΩ
Sensitivity	$\frac{\text{Log}(R100) - \text{Log}(R10)}{\text{Log}(E100) - \text{Log}(E10)}$ ** ***	-	0.9	-	Ω/Lux
Spectral Application Range	Flooded	400	-	700	nm
Spectral Application Range	Flooded	-	520	-	nm
Rise Time	10 Lux @ 2856 °K	-	60	-	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.

**TYPICAL PERFORMANCE**

**CELL RESISTANCE vs. ILLUMINANCE**



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