



**DESCRIPTION**

The **PDV-P5003** 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**

This LUNA high-reliability device is in principle able to meet military test requirements (Mil-STD-750, Mil-STD-883) after proper screening and group test. 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	(TA)= 23°C non condensing 0.2 inch from base for 3 sec with heat sink
Operating Temperature	-30	to	+75	°C	
Storage Temperature	-30	to	+75	°C	
Soldering Temperature	-	-	+260	°C	
Wavelength Range	400	to	700	nm	
Continuous power Dissipation	-	-	400	mW/°C	

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

**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	1	-	-	MΩ
Illuminated Resistance	10 Lux @ 2856°K	12	-	58	KΩ
Sensitivity	$\frac{\text{Log}(R100) - \text{Log}(R10)}{\text{Log}(E100) - \text{Log}(E10)}$ ** ***	-	0.7	-	Ω/Lux
Spectral Peak	Flooded	-	520	-	nm
Rise Time	10 Lux @ 2856 °K	-	55	100	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.