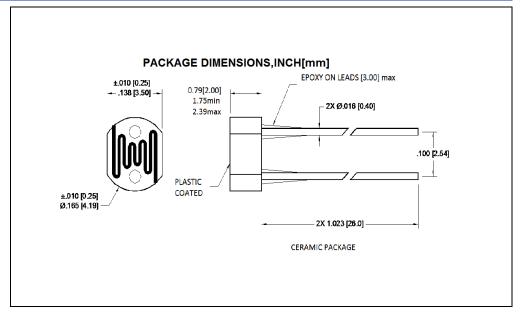


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## **Precision - Control - Results**





#### **DESCRIPTION**

The **PDV-P9005-1** 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 API high-reliability detector is in principle able to meet military test requirements (Mil-STD-750, Mil-STD-883) after proper screening and group test.

Contact API for recommendations on specific test conditions and procedures.

## **APPLICATIONS**

- Camera exposure
- Shutter controls
- Night light Controls

#### **ABSOLUTE MAXIMUM RATINGS**

 $T_a = 23$ °C non condensing 1/16 inch from case for 3 seconds max

PARAMETER	MIN	MAX	UNITS
Applied Voltage	-	150	V
Continuous Power Dissipation	-	90	mW/°C
Operating and Storage Temperature	-30	+75	°C
Soldering Temperature*	-	+260	°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.



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# **Precision – Control – Results**

## **OPTO-ELECTRICAL PARAMETERS**

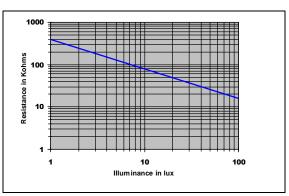
 $T_a = 23$ °C unless noted otherwise

CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Resistance	After 10 sec. @ 10 Lux @ 2856 °K	20	-	-	$\mathbf{M}\Omega$
Illuminated Resistance	10 Lux @ 2856 °K	48	-	140	ΚΩ
Sensitivity	LOG(R100)-LOG(R10)**	-	0.9	-	$\Omega/{\sf Lux}$
Sensitivity	LOG(E100)-LOG(E10)***	-	0.9	-	$\Omega/{\sf Lux}$
Spectral Application Range	Flooded	400	-	700	nm
Spectral Application Range	Flooded	-	520	-	ms
Rise Time	10 Lux @ 2856 °K	-	60	-	ms
Fall Time	After 10 Lux @ 2856 °K	-	25	-	$\mathbf{M}\Omega$

<sup>\*\*</sup>R100, R10: cell resistances at 100 Lux and 10 Lux at 2856 

K respectively.

#### **CELL RESISTANCE VS. ILLUMINANCE**



<sup>\*\*\*</sup>E100, E10: luminances at 100 Lux and 10 Lux at 2856 

K respectively