

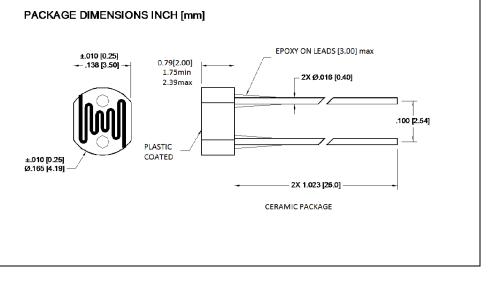
## CdS Photoconductive Photocells

## **PDV-P9003**

### WWW.ADVANCEDPHOTONIX.COM

## **Precision – Control – Results**





#### DESCRIPTION

The **PDV-P9003** 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 <sub>a</sub> = 23°C non condensing 1/16 in	nch 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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### **OPTO-ELECTRICAL PARAMETERS**

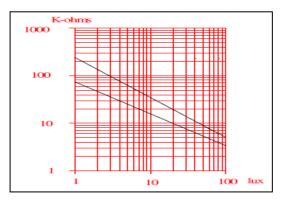
 $T_a = 23^{\circ}C$  unless noted otherwise

CHARACTERISTIC	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Dark Resistance	After 10 sec. @ 10 Lux @ 2856 °K	1	-	-	$\mathbf{M}\Omega$
Illuminated Resistance	10 Lux @ 2856 °K	16	-	33	KΩ
Sensitivity	LOG(R100)-LOG(R10)***	-	0.7	-	$\Omega/Lux$
Sensitivity	LOG(E100)-LOG(E10)***	-	0.7	-	$\Omega/Lux$
Spectral Application Range	Flooded	400	-	700	nm
Spectral Application Range	Flooded	-	570	-	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 IR respectively.

\*\*\*E100, E10: luminances at 100 Lux and 10 Lux at 2856 DK respectively

#### CELL RESISTANCE VS. ILLUMINANCE



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