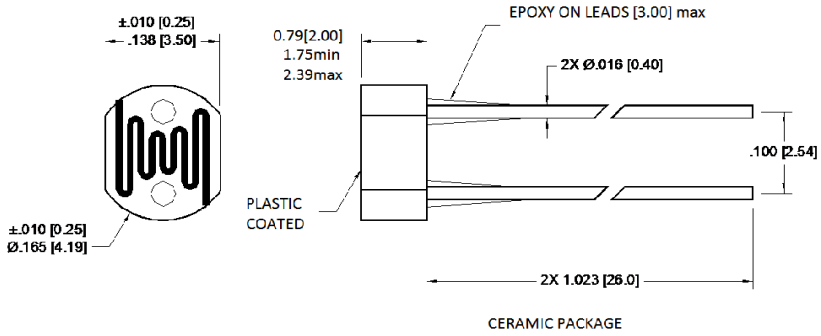
CdS Photoconductive Photocells

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_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

REV 04-29-15

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OPTO-ELECTRICAL PARAMETERS

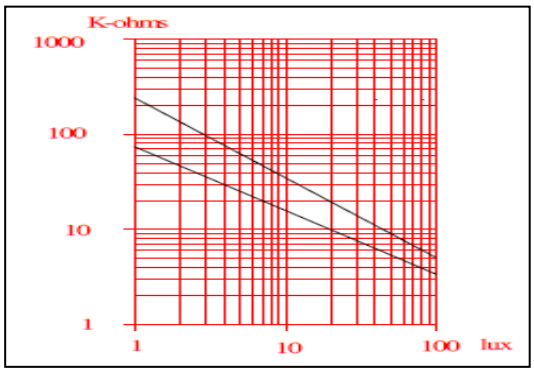
T_a = 23°C unless noted otherwise

CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Resistance	After 10 sec. @ 10 Lux @ 2856 °K	1	-	-	MΩ
Illuminated Resistance	10 Lux @ 2856 °K	16	-	33	KΩ
Sensitivity	LOG(R100)-LOG(R10)***	-	0.7	-	Ω/Lux
Sensitivity	LOG(E100)-LOG(E10)***	-	0.7	-	Ω/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 °K respectively.

***E100, E10: luminances at 100 Lux and 10 Lux at 2856 °K respectively

CELL RESISTANCE VS. ILLUMINANCE



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