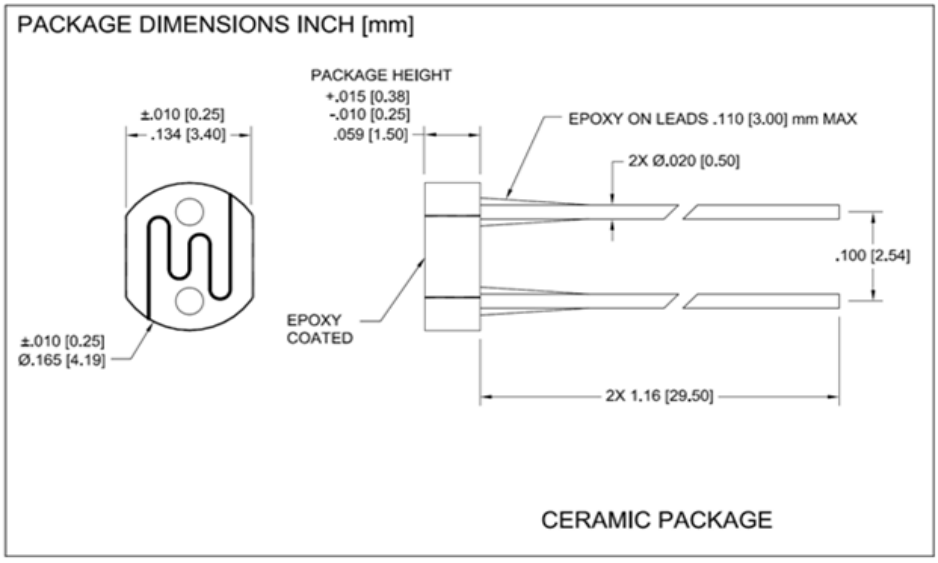
CdS Photoconductive Photocells

PDV-P9008

WWW.ADVANCEDPHOTONIX.COM **Precision – Control – Results**



DESCRIPTION

The **PDV-P9008** 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

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

*0.200 inch from base for 3 seconds with heat sink

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

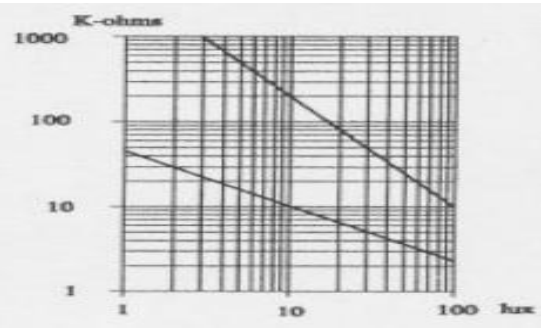
T_a = 23°C unless noted otherwise

CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Resistance	After 10 sec. @ 10 Lux @ 2856 °K	20	-	-	MΩ
Illuminated Resistance	10 Lux @ 2856 °K	10	-	200	KΩ
Sensitivity	LOG(R100)-LOG(R10)**	-	0.85	-	Ω/Lux
Sensitivity	LOG(E100)-LOG(E10)***	-	0.85	-	Ω/Lux
Spectral Application Range	Flooded	400	-	700	nm
Spectral Application Range	Flooded	-	570	-	ms
Rise Time	10 Lux @ 2856 °K	-	60	-	ms
Fall Time	After 10 Lux @ 2856 °K	-	25	-	MΩ

**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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