OPTOELECTRON

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CDS Photoconductive Photocells **PDV-P9001**

Precision – Control – Results

EPOXY ON LEADS .110 [3.00] mm MAX

.100 [2.54]

2X Ø.020 [0.50]

2X 1.16 [29,50]

CERAMIC PACKAGE



FEATURES

- Visible light response
- Sintered construction •
 - Low cost

APPLICATIONS

- Camera exposure
- Shutter controls
- Night light controls •

SYMBOL	MIN		MAX	UNITS	(TA)= 23°C UNLESS OTHERWISE NOTED
Applied Voltage	-	-	150	V	-
Continuous Power Dissipation	-	-	125	mW/°C	-
Operation and Storage Temperature	-25	to	+75	V	-
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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PACKAGE HEIGHT +.015 [0.38] -.010 [0.25]

.059 [1.50]

EPOXY COATED

The PDV-P9001 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

RELIABILITY

DESCRIPTION

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.

ABSOLUTE MAXIMUM RATINGS

CDS Photoconductive Photocells PDV-P9001

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OPTO-ELECTRICAL PARAMETERS

Precision – Control – Results

 $T_a = 23^{\circ}C$ UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Dark Resistance	After 10 sec. @10 Lux @ 2856°K	0.3	-	-	MΩ
Illuminated Resistance	10 Lux @ 2856°K	4	-	11	KΩ
Sensitivity	$\frac{\text{Log}(\text{R100}) - \text{Log}(\text{R10}) **}{\text{Log}(\text{E100}) - \text{Log}(\text{E10}) ***}$		0.65	-	Ω/Lux
Spectral Application Range	Flooded	400	-	700	nm
Spectral Application Range	inge 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 2856 °K respectively.

TYPICAL PERFORMANCE

CELL RESISTANCE vs. ILLUMINANCE



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