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CDS Photoconductive Photocells PDV-P8105

Precision – Control – Results





DESCRIPTION

The **PDV-P8105** 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

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Camera exposure
- Shutter controls
- Night light controls

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	(TA)= 23°C UNLESS OTHERWISE NOTED
Applied Voltage	-	-	150	V	-
Continuous Power Dissipation	-	-	100	mW/°C	-
Operation and Storage Temperature	-30	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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OPTO-ELECTRICAL PARAMETERS

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

PARAMETER	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Dark Resistance	After 10 sec. @10 Lux @ 2856°K	2.5	-	-	MΩ
Illuminated Resistance	10 Lux @ 2856°K	50	-	94	KΩ
Sensitivity	$\frac{Log(R100) - Log(R10) **}{Log(E100) - Log(E10) ***}$	-	.85	-	Ω/Lux
Spectral Application Range	Flooded	400	-	700	nm
Spectral Application Range	Flooded	-	520	-	nm
Rise Time	10 Lux @ 2856 °K	-	60	-	ms
Fall Time	After 10 Lux @ 2856 °K	-	25	-	ms
R100, R10: cell resistances at 100 L *E100, E10: luminances at 100 Lux	ux and 10 Lux at 2856 °K respectively . and 10 Lux 2856 °K respectively.		1		