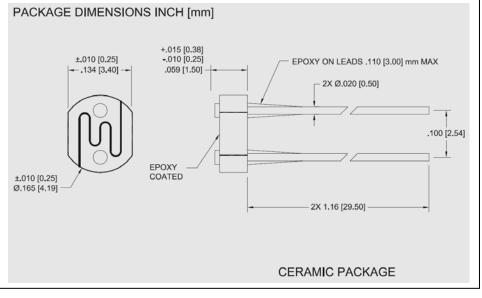


# CdS Photoconductive Photocells **PDV-P9103**





#### **FEATURES**

- **DESCRIPTION** Visible light response
- Sintered construction ٠
- Low cost

The PDV-P9103 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.

## **APPLICATIONS**

- Camera exposure
- Shutter controls
- Night light Controls



## ABSOLUTE MAXIMUM RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V <sub>pk</sub>	Applied Voltage		150	V
P <sub>d Δpo/Δt</sub>	Continuous Power Dissipation		125	mW/℃
To	Operating and Storage Temperature	-25	+75	ĉ
Ts	Soldering Temperature*		+260	ç

\* 0.200 inch from base for 3 seconds with heat sink.

### ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
R <sub>D</sub>	Dark Resistance	After 10 sec. @ 10 Lux @ 2856 °K	1			MΩ
R <sub>I</sub>	Illuminated Resistance	10 Lux @ 2856 °K	20		45	ΚΩ
S	Sensitivity	LOG(R100)-LOG(R10)** LOG(E100)-LOG(E10)***		0.8		$\Omega/{ m Lux}$
$\lambda$ range	Spectral Application Range	Flooded	400		700	nm
$\lambda$ peak	Spectral Application Range	Flooded		570		nm
t <sub>r</sub>	Rise Time	10 Lux @ 2856 °K		60		ms
T <sub>f</sub>	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.

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. REV 10/17/11

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