





#### **FEATURES**

- Visible light response
- Sintered construction
- Low cost

## **DESCRIPTION**

The **PDV-P8001** 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
$V_{pk}$	Applied Voltage		150	V
P <sub>d Δpo/Δt</sub>	Continuous Power Dissipation		100	mW/℃
To	Operating and Storage Temperature	-30	+75	C
Ts	Soldering Temperature*		+260	${\mathbb C}$

<sup>\* 0.200</sup> inch from base for 3 seconds with heat sink.

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R <sub>D</sub>	Dark Resistance	After 10 sec. @ 10 Lux @ 2856 °K	0.2			$\mathbf{M}\Omega$
R <sub>I</sub>	Illuminated Resistance	10 Lux @ 2856 °K	3		11	ΚΩ
S	Sensitivity	LOG(R100)-LOG(R10)** LOG(E100)-LOG(E10)***		0.6		$\Omega/{ m Lux}$
$\lambda$ range	Spectral Application Range	Flooded	400		700	nm
$\lambda$ peak	Spectral Application Range	Flooded		520		nm
t <sub>r</sub>	Rise Time	10 Lux @ 2856 °K	•	55		ms
T <sub>f</sub>	Fall Time	After 10 Lux @ 2856 °K		20		ms

<sup>\*\*</sup>R100, R10: cell resistances at 100 Lux and 10 Lux at 2856 °K respectively .

<sup>\*\*\*</sup>E100, E10: luminances at 100 Lux and 10 Lux 2856 °K respectively.