

### **FEATURES**

- · Visible light response
- Sintered construction
- · Low cost

# **DESCRIPTION**

The **PDV-P8107** 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**

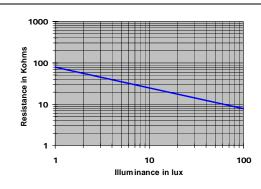
- · Camera exposure
- Shutter controls
- Night light Controls

### 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/°C
To	Operating and Storage Temperature	-30	+75	°C
T <sub>S</sub>	Soldering Temperature*		+260	°C

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

### **CELL RESISTANCE VS. ILLUMINANCE**



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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$R_D$	Dark Resistance	After 10 sec. @ 10 Lux @ 2856 °K	20			$\mathbf{M}\Omega$
R <sub>I</sub>	Illuminated Resistance	10 Lux @ 2856 °K	80		240	ΚΩ
S	Sensitivity	LOG(R100)-LOG(R10)** LOG(E100)-LOG(E10)***		0.9		$\Omega/{ m Lux}$
$\lambda$ range	Spectral Application Range	Flooded	400		700	nm
λpeak	Spectral Application Range	Flooded		520		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

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

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