

### FEATURES

- Visible light response
- Sintered construction
- Low cost

### DESCRIPTION

The **PDV-P5002** 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

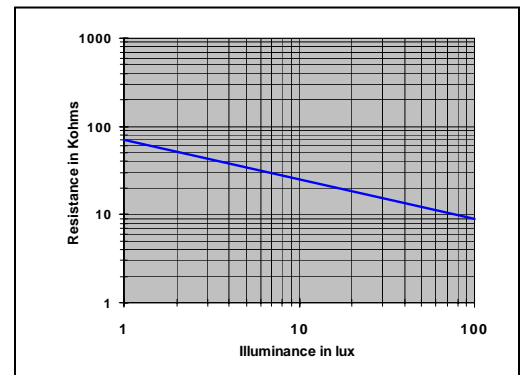
- Camera exposure
- Shutter controls
- Night light Controls

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

SYMBOL	PARAMETER	MIN	MAX	UNITS
$V_{pk}$	Applied Voltage		350	V
$P_{d \Delta po/\Delta t}$	Continuous Power Dissipation		400	mW/°C
$T_O$	Operating and Storage Temperature	-30	+75	°C
$T_S$	Soldering Temperature*		+260	°C

\* 0.200 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	0.5			MΩ
$R_I$	Illuminated Resistance	10 Lux @ 2856 °K	12		30	KΩ
S	Sensitivity	$\frac{\text{LOG}(R_{100})-\text{LOG}(R_{10})^{**}}{\text{LOG}(E_{100})-\text{LOG}(E_{10})^{***}}$		0.75		Ω/Lux
$\lambda_{\text{range}}$	Spectral Application Range	Flooded	400		700	nm
$\lambda_{\text{peak}}$	Spectral Application Range	Flooded		520		nm
$t_r$	Rise Time	10 Lux @ 2856 °K		55		ms
$T_f$	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.