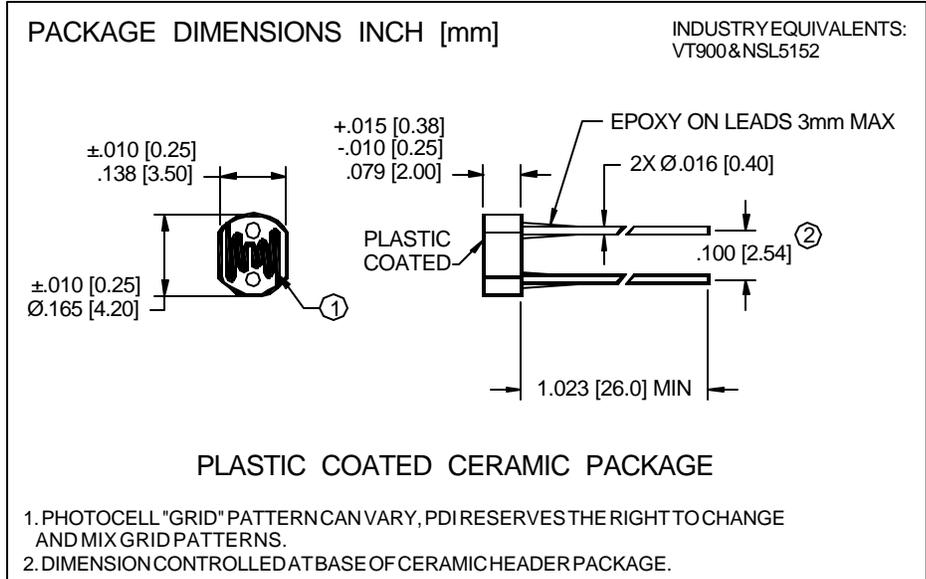
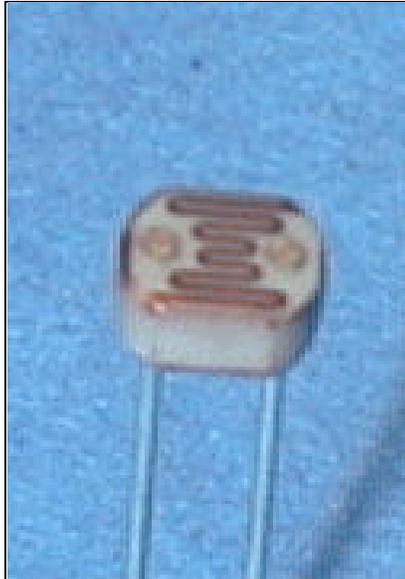


PHOTONIC DETECTORS INC. Cadmium Sulfoselenide (CdS) Photoconductive Photocells Type PDV-P9XXX-X



FEATURES

- Visible light response
- Sintered construction
- Low cost
- High Reliability

DESCRIPTION

PDV-P9XXX-X are (CdS) photoconductive photocells designed to sense light from 400 nm to 700 nm. As light dependent resistors, they are available in a wide range of resistance values. They are packaged in a two lead plastic-coated ceramic header.

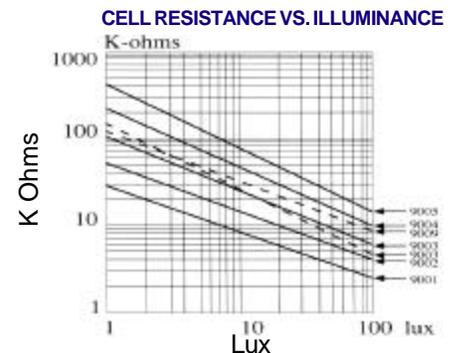
APPLICATIONS

- Camera exposure
- Low light level
- Shutter controls
- Night light controls

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{PK}	Applied Voltage		150	V dc
P _{dc point}	Continuous Power Dissipation		90	mW/°C
T _{stg} & T _o	Operating Temperature Range & Storage	-30	+75	°C
T _s	Soldering Temperature*		+260	°C

*.200 inch (5 mm) from bottom of header for 3 secs max with heat sink

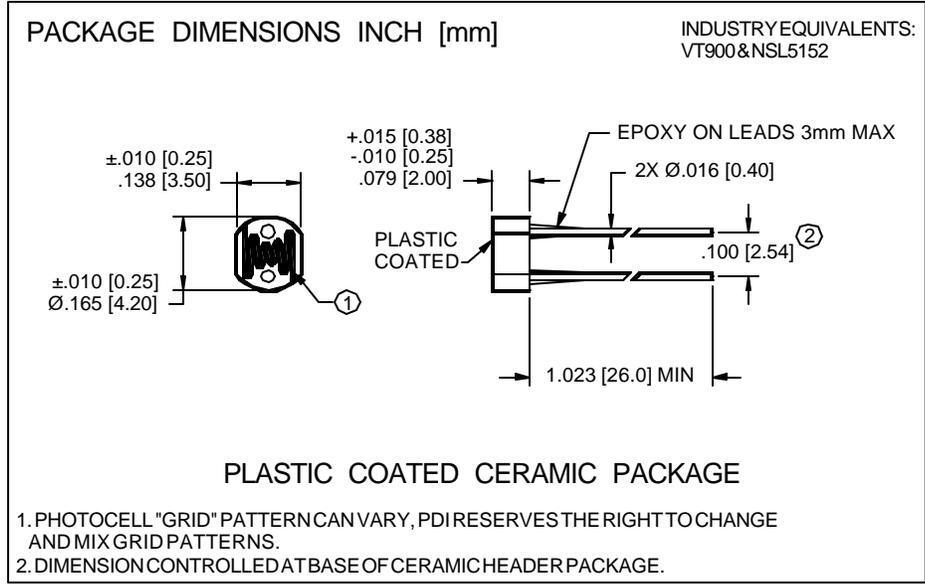


ELECTRO-OPTICAL CHARACTERISTICS TA=25°C (2 HOURS LIGHT ADAPT, MIN)***

MODEL NO.	CELL RESISTANCE** (Ohms)				SENSITIVITY $\frac{\text{LOG}(R_{100}) - \text{LOG}(R_{10})}{\text{LOG}(E_{100}) - \text{LOG}(E_{10})}$ (λ TYP)	SPECTRAL PEAK (nm) TYP	RESPONSE TIME @10 Lux	
	10 Lux @2856K		DARK				RISE TIME (ms) TYP	FALL TIME (ms) TYP
	MIN (KΩ)	MAX (KΩ)	MIN (MΩ)	SEC				
PDV-P9001	4	11	0.3	10	0.65	520	60	25
PDV-P9002	9	20	0.5	10	0.6	520	60	25
PDV-P9002-1	11	20	0.5	10	0.7	520	60	25
PDV-P9003	16	33	1	10	0.8	520	60	25
PDV-P9003-1	23	33	1	10	0.85	520	60	25
PDV-P9004	27	60	2	10	0.85	520	60	25
PDV-P9005	50	94	2.5	10	0.9	520	60	25
PDV-P9005-1	48	140	20	10	0.9	520	60	25

Information in this technical data sheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. ** Photocells are light adapted at 100 to 500 Lux. *** Photocells are tested at 2856°K at a 10 Lux light level. Resistance values are for reference only. [FORM NO. 100-PDV-P9001 REV A]

PHOTONIC Cadmium Sulfoselenide (CdS) Photoconductive Photocells DETECTORS INC. Type PDV-P9XXX-X



FEATURES

- Visible light response
- Sintered construction
- Low cost
- High Reliability

DESCRIPTION

PDV-P9XXX-X are (CdS) photoconductive photocells designed to sense light from 400 nm to 700 nm. As light dependent resistors, they are available in a wide range of resistance values. They are packaged in a two lead plastic-coated ceramic header.

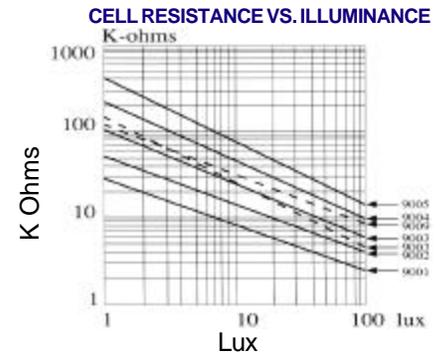
APPLICATIONS

- Camera exposure
- Low light level
- Shutter controls
- Night light controls

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{PK}	Applied Voltage		150	V dc
P _{da poΔt}	Continuous Power Dissipation		90	mW/°C
T _{stg} & T _o	Operating Temperature Range & Storage	-30	+75	°C
T _s	Soldering Temperature*		+260	°C

*.200 inch (5 mm) from bottom of header for 3 secs max with heat sink



ELECTRO-OPTICAL CHARACTERISTICS TA=25°C (2 HOURS LIGHT ADAPT, MIN)***

MODEL NO.	CELL RESISTANCE** (Ohms)				SENSITIVITY LOG(R100)-LOG(R10) LOG (E100)-LOG(E10) (λ TYP)	SPECTRAL PEAK (nm) TYP	RESPONSE TIME @ 10 Lux	
	10 Lux @ 2856K		DARK				RISE TIME (ms) TYP	FALL TIME (ms) TYP
	MIN (KΩ)	MAX (KΩ)	MIN (MΩ)	SEC				
PDV-P9006	80	200	5	10	1	520	60	25
PDV-P9007	10	100	1	10	0.8	520	60	25
PDV-P9008	10	200	20	10	0.85	520	60	25
PDV-P9103	20	45	1	10	0.8	520	60	25
PDV-P9200	10	50	5	10	0.9	520	70	15
PDV-P9203	5	20	20	10	0.9	520	70	15

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