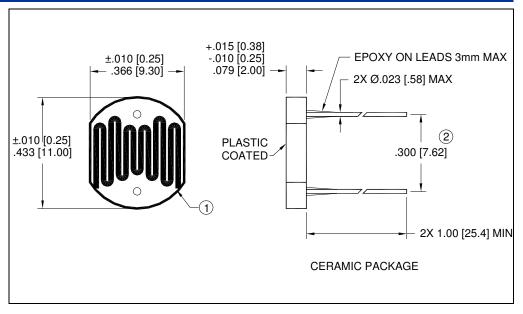


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Precision – Control – Results





DESCRIPTION

The **PDV-P5003** 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.

FEATURES

- Visible light response
- Sintered construction
- Low cost

RELIABILITY

This API high-reliability detector is in principle able to meet military test requirements (Mil-STD-750, Mil-STD-883) after proper screening and group test.

Contact API for recommendations on specific test conditions and procedures.

APPLICATIONS

- Camera exposure
- Shutter controls
- Night light controls

ABSOLUTE MAXIMUM RATINGS

Applied Voltage			350	V	T _a = 23 ℃
Operating Temperature	-30	to	+75	∞	non condensing
Storage Temperature	-30	to	+75	∞	
Soldering Temperature			+260	∞	0.2 inch from base for 3 sec with heat sink
Wavelength Range	400	to	700	nm	
Continuous Power Dissipation			400	mW/℃	



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OPTO-ELECTRICAL PARAMETERS T _a = 23 °C unless noted other							
PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS		
Dark resistance	After 10 sec @ 10Lux @2856°K	1	-	-	ΜΩ		
Illuminated resistance	10Lux @2856℃	12	-	58-	ΜΩ		
Sensitivity	LOG(R100)-LOG(R10)** LOG(E100)-LOG(E10)***	-	0.7	-	Ω/Lux		
Spectral Peak	Flooded		520	-	nm		
Rise Time	10Lux @ 2856 °K	-	55	100	ms		
Fall Time	After 10Lux @ 2856 °K	-	25	-	ms		

^{**}R100, R10: cell resistances at 100 Lux and 10 Lux at 2856 °K respectively.

TYPICAL PERFORMANCE

^{***}E100, E10: luminances at 100 Lux and 10 Lux 2856 °K respectively.