Plastic-coated Types (7R, 10R Types)

Type No.	Out-line	Absolute Maximum Ratings			Characteristics *5 (at 25°C)						
		Applied Voltage at 25°C	Allowable Power Dissipation at 25°C	Ambient Temperature Ta	Peak Response Wavelength λp Typ.	Cell Resistance *1			γ_{10}^{100} *3	Response Time at 10*lx* *4	
						10*lx* (at 2856 K)		0*lx* *2	100 to 10*lx*	Rise Time Typ.	Fall Time Typ.
		(Vdc)	(mW)	(°C)	(nm)	Min. (kΩ)	Max. (kΩ)	Min. (MΩ)	Typ.	(ms)	(ms)
7R Types											
P201D-7R	❷	200	100	−30 to +60	520	23	67	20	0.90	30	10
P380-7R		200	50	−30 to +50	620	4.4	13	20	0.85	35	20
P467-7R		100	100	−30 to +60	520	8	24	5	0.90	50	20
P722-7R		100	150	−30 to +60	560	2.5	7.5	0.5	0.70	50	40
P1195		200	100	−30 to +70	550	50	150	20	0.90	40	10
P1202-12		100	150	−30 to +60	560	3.5	14	0.5	0.70	50	40
P1202-16		200	100	−30 to +60	550	23	67	20	0.90	30	10
10R Types											
P722-10R	❸	200	300	−30 to +60	560	12	36	0.5	0.70	50	40
P1096-06		100	100	−30 to +60	550	2.8	8.4	0.5	0.75	50	40

*1 Measured with the light source of a tungsten lamp operated at a color temperature of 2856K.

*2 Measured 10 seconds after removal of incident illuminance of 10 lux.

*3 Gamma characteristic between 10 lux and 100 lux and given by

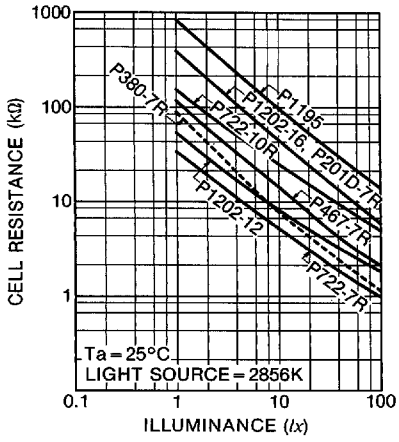
$$\gamma_{10}^{100} = \left| \frac{\log(R_{100}) - \log(R_{10})}{\log(E_{100}) - \log(E_{10})} \right|$$

Where R_{100}, R_{10}: cell resistances at 100 lux and 10 lux respectively
E_{100}, E_{10}: illuminances of 100 lux and 10 lux respectively

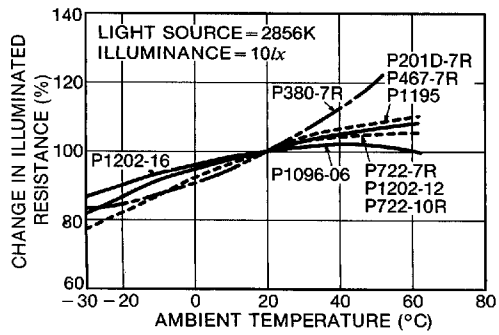
*4 The rise time is the time required for the cell conductance to rise to 63% of the saturated level. The fall time is the time required for the cell conductance to decay from the saturated level to 37%.

*5 All characteristics are measured with the light history conditions: the CdS cell is exposed to light (100 to 500 lux) for one to two hours.

- **Cell resistance vs. illuminance**

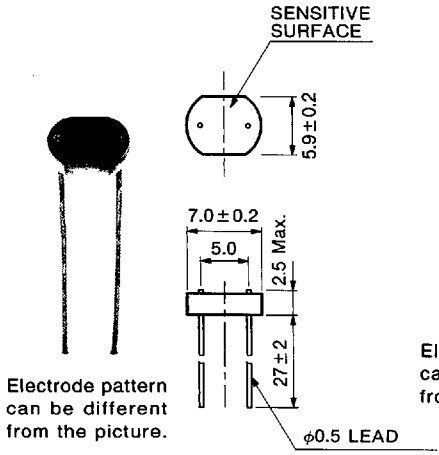


- **Cell resistance vs. temperature**



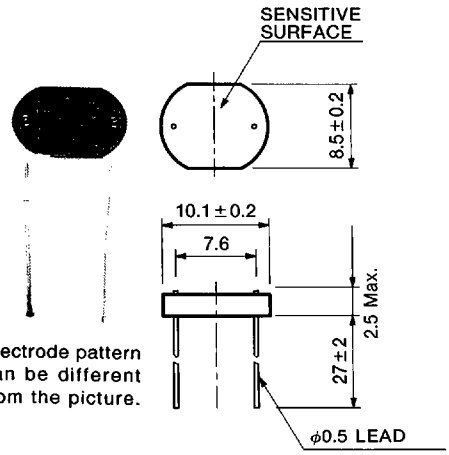
Unit: mm

❷ 7R Types



Electrode pattern can be different from the picture.

❸ 10R Types



Electrode pattern can be different from the picture.