

Plastic-coated Types (5R Types)

Type No.	Out-line	Absolute Maximum Ratings			Characteristics *5 (at 25°C)					
		Applied Voltage at 25°C (Vdc)	Allowable Power Dissipation at 25°C (mW)	Ambient Temperature Ta (°C)	Peak Response Wavelength λ_p Typ. (nm)	Cell Resistance *1		γ_{10}^{100} *3 100 to 10lx Typ.	Response Time at 10lx *4	
						10lx (at 2856 K) Min. (k Ω)	0lx *2 Max. (k Ω)		Rise Time Typ. (ms)	Fall Time Typ. (ms)

5R Types

P201D-5R	①	100	50	-30 to +60	520	48	140	20	0.90	30	10
P380-5R		100	30	-30 to +50	620	12	36	20	0.85	35	20
P687-02		100	30	-30 to +50	620	5	20	5.0	0.70	60	25
P722-5R		100	70	-30 to +60	560	5.3	15	0.5	0.70	50	40
P1082-03		100	70	-30 to +80	560	13	39	0.2	0.55	100	150
P1201		100	70	-30 to +80	540	20	60	5.0	0.75	40	30
P1201-01		100	70	-30 to +80	540	30	90	5.0	0.75	40	30
P1201-04		100	50	-30 to +60	540	50	200	20	0.90	40	30
P1201-06		100	50	-30 to +60	540	50	100	20	0.90	40	30
P1225-01		100	50	-30 to +60	520	87	350	10	0.90	50	20
P1241-04		50	30	-30 to +60	560	3	9	0.2	0.70	50	40
P1241-05		50	30	-30 to +60	560	8	24	0.5	0.70	50	40
P1241-06		50	30	-30 to +60	560	5	20	0.5	0.75	50	40
P1444		100	30	-30 to +50	620	10	50	5.0	0.85	40	10
P1445		100	30	-30 to +50	620	48	140	20	0.85	40	10

*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

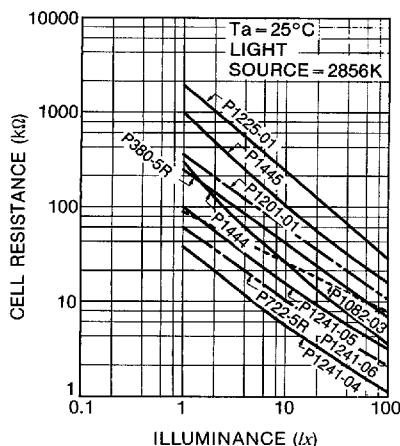
$$\gamma_{10}^{100} = \frac{\log(R_{100}) - \log(R_{10})}{\log(E_{100}) - \log(E_{10})}$$

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

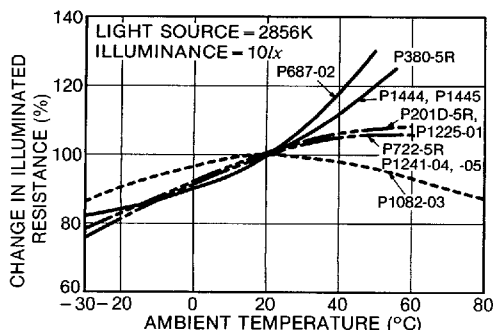
*4 The rise time is the time required for the cell conductance to rise to 63% of the saturated level. The fall time is the time required for the cell conductance to decay from the saturated level to 37%.

*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



① 5R Types

