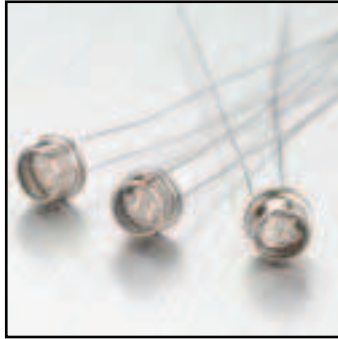


photocells



A10 Series



B90 Series

VT43 Series

Technical Specification

Part Number	Resistance (Ω)					Material Type	Sensitivity (γ , typ.)		Max. Volts V, pk	Response Time @ fc ms, typ.	
	1 fc 6500 K min.	8 k typ.	12 k max.	2 fc 2850 K typ.	Dark min.	Dark sec.	LOG (R10/R100)	LOG (100/10)		Rise (1-1/e)	Fall (1/e)
VT43N1	4 k	8 k	12 k	—	300 k	30	3	0.9	250	90	18
VT43N2	8 k	16 k	24 k	—	300 k	30	3	0.9	250	90	18
VT43N3	16 k	32 k	48 k	—	500 k	30	3	0.9	400	90	18
VT43N4	33 k	66 k	100 k	—	500 k	30	3	0.9	400	90	18

A10 Series

Technical Specification

Part Number	Typical Electro-Optical Characteristics						Top range °C	Tst range °C	Limit Values				
	R10 range k Ω	R100 typ. k Ω	R01 min. M Ω	R05 min. M Ω	$\gamma_{10/100}$ typ.	λ_{peak} nm			TC 10 lux %/°K	t_{on} typ. msec	t_{off} typ. msec	Vmax. V	Pmax. mW
A106009	4-11	2	0.04	0.12	0.65	600	-20-+70	-20-+80	0.4	50	40	100	90
A106011	9-20	3.5	0.06	0.18	0.65	600	-20-+70	-20-+80	0.3	60	40	150	90
A106012	16-33	5	0.18	0.5	0.7	600	-20-+70	-20-+80	0.35	50	35	150	90
A106013	27-94	8	0.5	1.5	0.8	600	-20-+70	-20-+80	0.4	35	30	150	90
A106014	77-340	15	1.5	5	0.9	600	-20-+70	-20-+80	0.5	25	20	150	90
A106031	60-130	23	0.4	1.2	0.65	600	-20-+70	-20-+80	0.3	60	40	300	90
A106032	120-210	35	1	3	0.7	600	-20-+70	-20-+80	0.35	50	35	300	90
A106033	200-580	50	3	9	0.8	600	-20-+70	-20-+80	0.4	35	30	300	90
A106034	500-1200	100	5	15	0.9	600	-20-+70	-20-+80	0.5	25	20	300	90
A105009	4-11	2	0.04	0.12	0.65	530	-20-+70	-20-+80	0.3	70	50	100	90
A105011	9-22	4	0.05	0.15	0.6	530	-20-+70	-20-+80	0.2	70	50	150	90
A105012	18-44	7	0.15	0.45	0.65	530	-20-+70	-20-+80	0.2	60	40	150	90
A105013	36-88	12	0.4	1.2	0.7	530	-20-+70	-20-+80	0.3	50	30	150	90
A105014	70-200	20	1	3	0.75	530	-20-+70	-20-+80	0.3	40	30	150	90

All readings taken at standard light A (2854 K color temperature) after 2 hours of preillumination at 500 lux

A90 Series

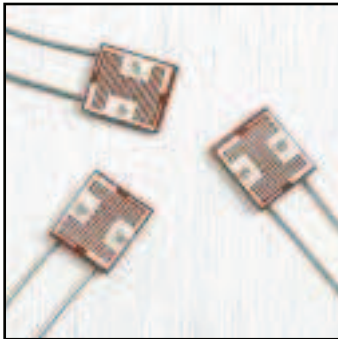
Technical Specification

Part Number	Typical Electro-Optical Characteristics						Top range °C	Tst range °C	Limit Values				
	R10 range k Ω	R100 typ. k Ω	R01 min. M Ω	R05 min. M Ω	$\gamma_{10/100}$ typ.	λ_{peak} nm			TC 10 lux %/°K	t_{on} typ. msec	t_{off} typ. msec	Vmax. V	Pmax. mW
A906009	4-11	2	0.04	0.12	0.65	600	-20-+70	-20-+80	0.4	50	40	100	90
A906011	9-20	3.5	0.06	0.18	0.65	600	-20-+70	-20-+80	0.3	60	40	150	90
A906012	16-33	5	0.18	0.5	0.7	600	-20-+70	-20-+80	0.35	50	35	150	90
A906013	27-94	8	0.5	1.5	0.8	600	-20-+70	-20-+80	0.4	35	30	150	90
A906014	77-340	15	1.5	5	0.9	600	-20-+70	-20-+80	0.5	25	20	150	90
A906031	60-130	23	0.4	1.2	0.65	600	-20-+70	-20-+80	0.3	60	40	300	90
A906032	120-210	35	1	3	0.7	600	-20-+70	-20-+80	0.35	50	35	300	90
A906033	200-580	50	3	9	0.8	600	-20-+70	-20-+80	0.4	35	30	300	90
A906034	500-1200	100	5	15	0.9	600	-20-+70	-20-+80	0.5	25	20	300	90
A905012	18-44	7	0.15	0.45	0.65	530	-20-+70	-20-+80	0.2	60	40	150	90
A905013	36-88	12	0.4	1.2	0.7	530	-20-+70	-20-+80	0.3	50	30	150	90
A905014	70-200	20	1	3	0.75	530	-20-+70	-20-+80	0.3	40	30	150	90
A995009	4-11	2	0.04	0.12	0.65	530	-20-+70	-20-+80	0.3	70	50	100	90
A995011	9-22	4	0.05	0.15	0.6	530	-20-+70	-20-+80	0.2	70	50	150	90
A995012	18-44	7	0.15	0.45	0.65	530	-20-+70	-20-+80	0.2	60	40	150	90
A995013	36-88	12	0.4	1.2	0.7	530	-20-+70	-20-+80	0.3	50	30	150	90
A995014	70-200	20	1	3	0.75	530	-20-+70	-20-+80	0.3	40	30	150	90

All readings taken at standard light A (2854 K color temperature) after 2 hours of preillumination at 500 lux

Table Key

- R 10 Resistance at E=10 lux light intensity
 R 100 Resistance at E=100 lux light intensity
 R01 Dark Resistance after 1 sec (E=0)
 R05 Dark Resistance after 5 sec (E=0)
 $\gamma_{10/100}$ Sensitivity log (R10/R100)/
 log (100 lux/10 lux)
 λ_{peak} Peak Spectral Sensitivity
 Top Operating Temperature
 Tst Storage Temperature
 TC Thermal Coefficient
 t_{on} Rise Time to 63% of final I (R10)
 t_{off} Decay Time to 37% of initial I (R10)
 Vmax Maximum Operating Voltage
 at E=0 lux
 Pmax Power Dissipation at 25°C
 Ambient Temperature



B Series

Technical Specification

Part Number	Typical Electro-Optical Characteristics						Limit Values						
	R10 range kΩ	R100 typ. kΩ	R01 min. MΩ	R05 min. MΩ	γ _{10/100} typ.	λ _{peak} nm	Top range °C	T _{st} range °C	TC 10 lux %/K	t _{on} typ. msec	t _{off} typ. msec	V _{max.} V	P _{max.} mW
B906023	4-15	1.6	0.1	0.3	0.8	600	-20-+70	-20-+80	0.4	35	30	300	200
B906032	5-13	2	0.1	0.3	0.7	600	-20-+70	-20-+80	0.3	50	35	300	200
B906033	11-40	5	0.2	0.6	0.8	600	-20-+70	-20-+80	0.4	35	25	300	200

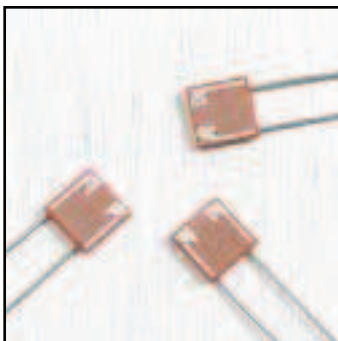
All readings taken at standard light A (2854 K color temperature) after 2 hours of preillumination at 500 lux

D Series

Technical Specification

Part Number	Typical Electro-Optical Characteristics						Limit Values						
	R10 range kΩ	R100 typ. kΩ	R01 min. MΩ	R05 min. MΩ	γ _{10/100} typ.	λ _{peak} nm	Top range °C	Tst range °C	TC 10 lux %/K	ton typ. msec	toff typ. msec	Vmax. V	Pmax. mW
D996011	1.5-3	0.6	0.01	0.03	0.6	600	-20+70	-20+80	0.3	60	35	150	200
D996012	2.8-6	0.8	0.03	0.09	0.7	600	-20+70	-20+80	0.35	50	30	150	200
D996013	4.5-13	1.5	0.1	0.3	0.8	600	-20+70	-20+80	0.4	35	25	150	200
D996021	4-9	1.8	0.03	0.09	0.6	600	-20+70	-20+80	0.3	60	35	150	200
D996022	8-15	2.5	0.09	0.27	0.7	600	-20+70	-20+80	0.35	50	30	150	200
D996023	12-35	4	0.5	1.5	0.8	600	-20+70	-20+80	0.4	35	25	150	200

All readings taken at standard light A (2854 K color temperature) after 2 hours of preillumination at 500 lux



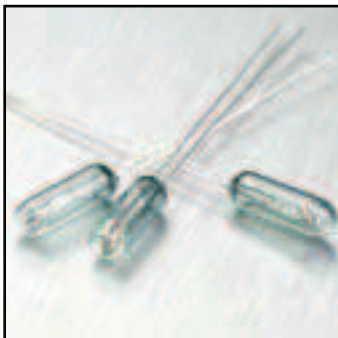
D Series

M Series

Technical Specification

Part Number	Typical Electro-Optical Characteristics						Limit Values						
	R10 range kΩ	R100 typ. kΩ	R01 min. MΩ	R05 min. MΩ	γ _{10/100} typ.	λ _{peak} nm	Top range °C	T _{st} range °C	TC 10 lux %/K	t _{on} typ. msec	t _{off} typ. msec	V _{max} . V	P _{max} . mW
M996011a	1.5-5	0.7	0.05	0.15	0.7	600	-20-+70	-20-+80	0.3	50	30	100	200
M996011b	0.8-2	0.4	0.05	0.15	0.65	600	-20-+70	-20-+80	0.3	40	30	100	200

All readings taken at standard light A (2854 K color temperature) after 2 hours of preillumination at 500 lux



M Series

U Series

Technical Specification

Part Number	Typical Electro-Optical Characteristics						Limit Values						
	R10 kΩ	R100 typ. kΩ	R01 min. mΩ	R05 min. mΩ	γ _{10/10} min.	λ _{peak} nm	top range °C	tst range °C	TC 10 lux %/K	ton typ. msec	toff typ. msec	V _{max} V	P _{max} mW
U116012	20-50	8	0.12	0.36	0.7	550	-20-+70	-20-+80	0.3	50	40	150	50
U116013	35-220	15	0.4	1.2	0.85	550	-20-+70	-20-+80	0.35	40	30	150	50
U116014	150-1000	35	1	3	0.95	550	-20-+70	-20-+80	0.4	30	25	150	50
U116032	100-320	40	1	3	0.7	550	-20-+70	-20-+80	0.3	40	30	400	50
U116033	250-1100	75	2	6	0.85	550	-20-+70	-20-+80	0.35	30	25	400	50

All readings taken at standard light A (2854 K color temperature) after 2 hours of preillumination at 500 lux

U Series