

GaAsP Photodiodes

4229609 HAMAMATSU CORP
 查询"G1742"供应商

89D 02006 D T-41-51

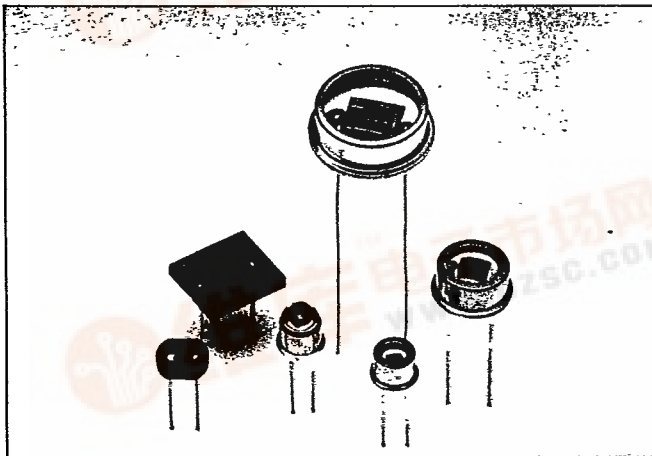
Type No.	Outlines Window Materials	Package (mm)	Photosensitive Surface		Spectral Response		Characteristics (25°C)				
			Size (mm)	Effective Area (mm ²)	Range (nm)	Peak Wave-length (nm)	Typical Radiant Sensitivity (A/W)			Short Circuit Current I _{sh} , 100 lux	
							Peak Wave-length	560nm GaP LED	633nm He-Ne Laser	Min (μA)	Typ. (μA)

Diffusion Type (for Visible Light)

G1115	①/K	TO-18	1.3 x 1.3	1.66	300~680	610±30	0.3	0.29	0.29	0.12	0.15
G1116	⑥/K	TO-5	2.7 x 2.7	7.26						0.45	0.6
G1117	⑩/K	TO-8	5.6 x 5.6	29.3						2	2.5
G1118	⑫/R	5 x 6	1.3 x 1.3	1.66						0.12	0.15
G1120	⑰/R	8.9 x 10.1	5.6 x 5.6	29.3						2	2.5
G1122	⑳/L	TO-18	1.3 x 1.3	1.66						0.4	0.5

Diffusion Type (Extended Red Sensitivity Type)

G1735	①/K	TO-18	1.3 x 1.3	1.66	400~760	710±30	0.4	0.22	0.29	0.2	0.25
G1736	⑥/K	TO-5	2.7 x 2.7	7.26						0.8	1.1
G1737	⑩/K	TO-8	5.6 x 5.6	29.3						3.5	4.5
G1738	⑫/R	5 x 6	1.3 x 1.3	1.66						0.2	0.25
G1740	⑰/R	8.9 x 10.1	5.6 x 5.6	29.3						3.5	4.5
G1742	⑳/L	TO-18	1.3 x 1.3	1.66						0.7	0.8



① See pages 34 to 37 for outlines.

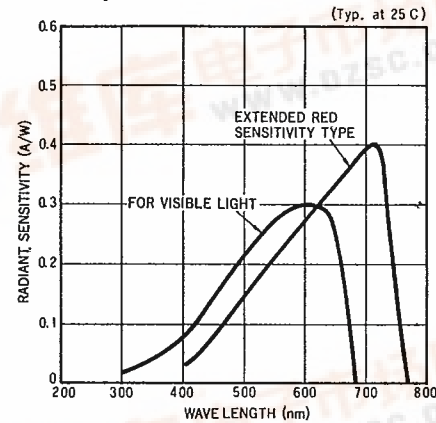
Window materials are

K: Borosilicate glass

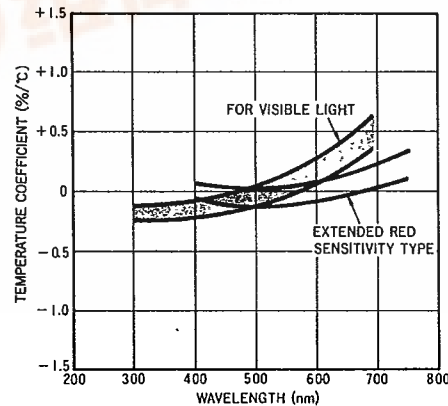
L: Lens type borosilicate glass

R: Resin coating

• Spectral Response



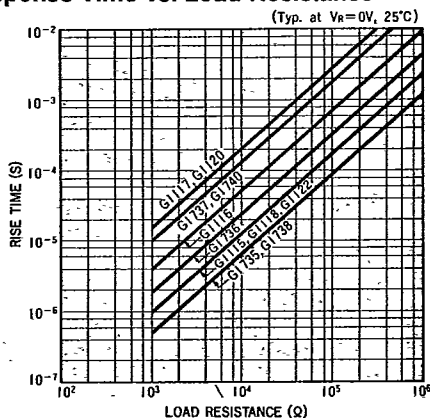
• Temperature Characteristic of I_{sh}



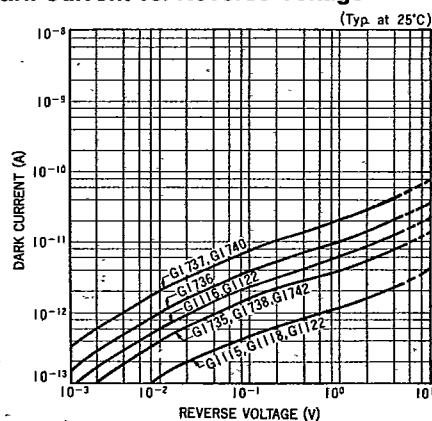
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Characteristics (25°C)								Absolute Maximum Ratings				
Dark Current, I _d Max.		Temperature Dependence of Dark Current Typ. (Times/°C)	Shunt Resistance R _{sh} V _R =10mV		Junction Capacitance C _j V _R =0V Typ. (pF)	Rise Time t _r V _R =0V R _L =1kΩ Typ. (μs)	NEP Typ. (W/Hz ^{1/2})	D* Typ. (cm·Hz ^{1/2} /W)	Reverse Voltage V _{Rmax} (V)	Temperature Range		Type No.
V _R =10mV (pA)	V _R =1V (pA)		Min. (GΩ)	Typ. (GΩ)						Operating (°C)	Storage (°C)	
1	10	1.07	10	80	300	1	9 × 10 ⁻¹⁶	1 × 10 ¹⁴	5	-10~+60	-20~+80	G1115
2.5	25		4	30	1400	4	2 × 10 ⁻¹⁵					G1116
5	50		2	15	6000	15	3 × 10 ⁻¹⁵					G1117
1	10		10	80	300	1	9 × 10 ⁻¹⁶					G1118
5	50		2	15	6000	15	3 × 10 ⁻¹⁵					G1120
1	10		10	80	300	1	9 × 10 ⁻¹⁶					G1122
2	20	1.07	5	25	250	0.5	2 × 10 ⁻¹⁵	6 × 10 ¹³	5	-10~+60	-20~+80	G1735
5	50		2	10	1200	1.8	3 × 10 ⁻¹⁵					G1736
10	100		1	5	4500	10	7 × 10 ⁻¹⁵					G1737
2	20		5	25	250	0.5	2 × 10 ⁻¹⁵					G1738
10	100		1	5	4500	10	7 × 10 ⁻¹⁵					G1740
2	20		5	25	250	0.5	2 × 10 ⁻¹⁵					G1742

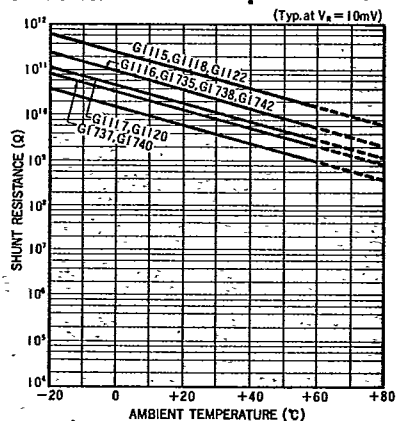
• Response Time vs. Load Resistance



• Dark Current vs. Reverse Voltage



• Shunt Resistance vs. Temperature



• Linearity

