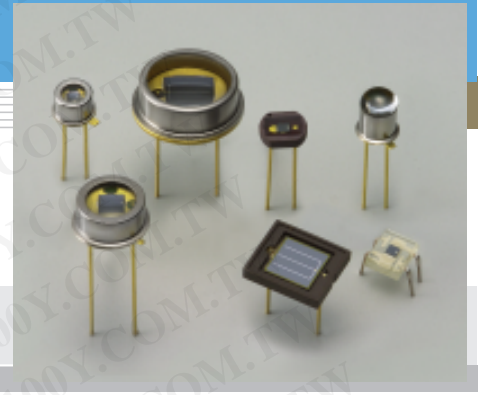


GaAsP photodiode Diffusion type

Photodiode for visible light detection



Features

- Low dark current
- High stability

Applications

- Analytical instrument
- Color identification

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

■ General ratings / Absolute maximum ratings

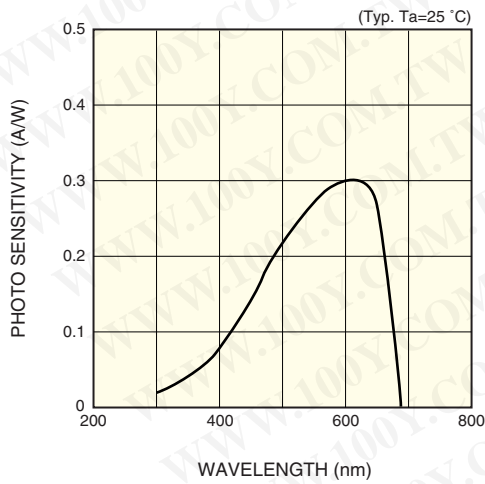
Type No.	Dimensional outline/ Window material *	Package	Active area size (mm)	Effective active area (mm ²)	Absolute maximum ratings		
					Reverse voltage VR Max. (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
G1115	①/K	TO-18	1.3 × 1.3	1.66	5	-30 to +80	-40 to +85
G1116	②/K	TO-5	2.7 × 2.7	7.26			
G1117	③/K	TO-8	5.6 × 5.6	29.3			
G1118	④/R	Ceramic	1.3 × 1.3	1.66			
G1120	⑤/R	Ceramic	5.6 × 5.6	29.3			
G3067	⑥/L	TO-18	1.3 × 1.3	1.66			
G2711-01	⑦/R	Plastic	1.3 × 1.3	1.66			

■ Electrical and optical characteristics (Typ. Ta=25 °C, unless otherwise noted)

Type No.	Spectral response range λ (nm)	Peak sensitivity wavelength λ_p (nm)	Photo sensitivity S (A/W)			Short circuit current Isc 100 k		Dark current Id Max.		Temp. coefficient of Id TCID (times/°C)	Rise time tr VR=0 V RL=1 k Ω (μ s)	Terminal capacitance Ct VR=0 V f=10 kHz (pF)	Shunt resistance Rsh VR=10 mV		NEP (W/Hz ^{1/2})			
			λ_p	GaP LED 560 nm	He-Ne laser 633 nm	Min. (μ A)	Typ. (μ A)	VR=10 mV (pA)	VR=1 V (pA)				Min. (G Ω)	Typ. (G Ω)				
G1115	300 to 680	640	0.3	0.29	0.29	0.12	0.15	1	10	1.07	1	300	10	80	1.5×10^{-15}			
G1116						0.45	0.6	2.5	25				4	30		2.5×10^{-15}		
G1117						2	2.5	5	50				15	15				
G1118						0.12	0.15	1	10				1	300		10	80	1.5×10^{-15}
G1120						2	2.5	5	50				15	6000		2	15	
G3067						0.75	0.95	1	10				1	300		10	80	1.5×10^{-15}
G2711-01						0.15	0.18	1	10				1	300		10	80	

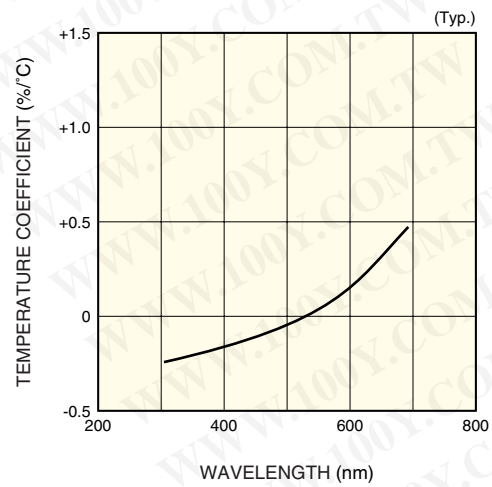
* Window material K: borosilicate glass, L: lens type borosilicate glass, R: resin coating

■ Spectral response



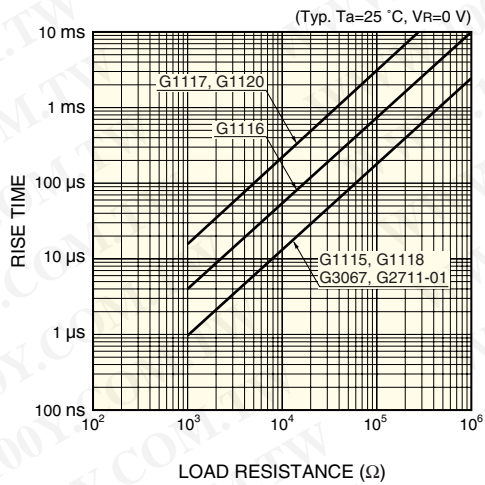
KGPD0019EA

■ Photo sensitivity temperature characteristic



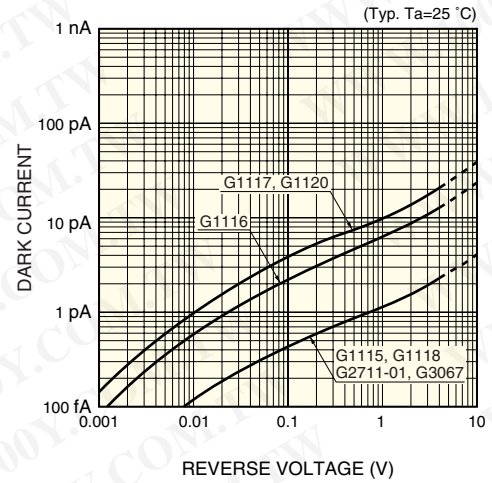
KGPD0020EA

■ Rise time vs. load resistance



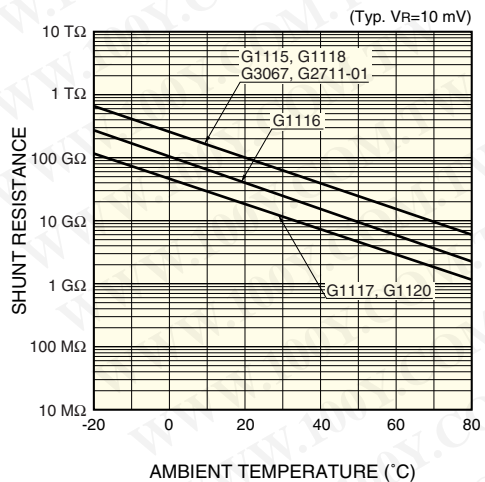
KGPD0021EA

■ Dark current vs. reverse voltage



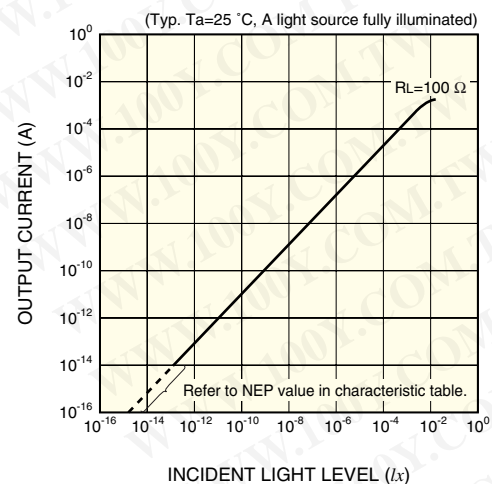
KGPD0022EA

■ Shunt resistance vs. ambient temperature



KGPD0023EA

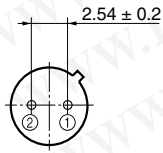
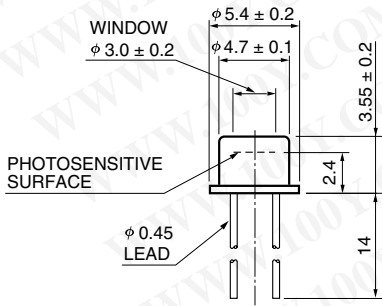
■ Short circuit current linearity



KGPD0008EA

■ Dimensional outlines (unit: mm)

① G1115



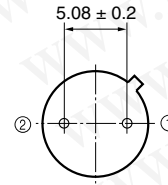
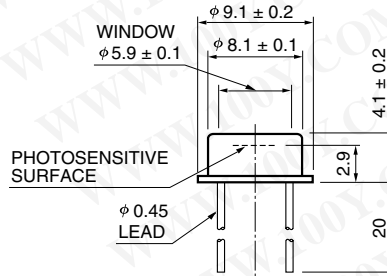
CONNECTED TO CASE



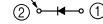
Borosilicate glass window may extend a maximum of 0.1 mm beyond the upper surface of the cap.

KGPD A0012EA

② G1116



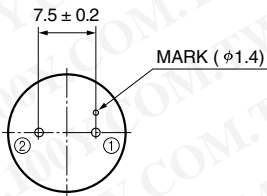
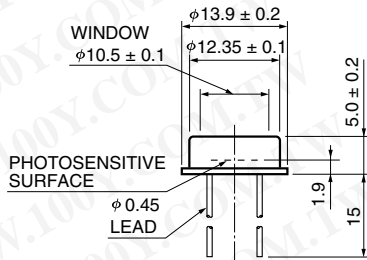
CONNECTED TO CASE



Borosilicate glass window may extend a maximum of 0.2 mm beyond the upper surface of the cap.

KGPD A0013EA

③ G1117



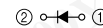
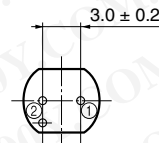
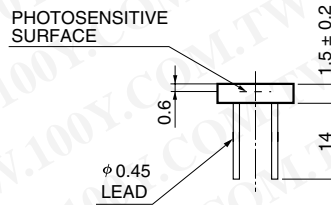
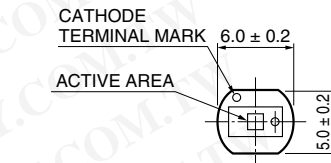
CONNECTED TO CASE



Borosilicate glass window may extend a maximum of 0.2 mm beyond the upper surface of the cap.

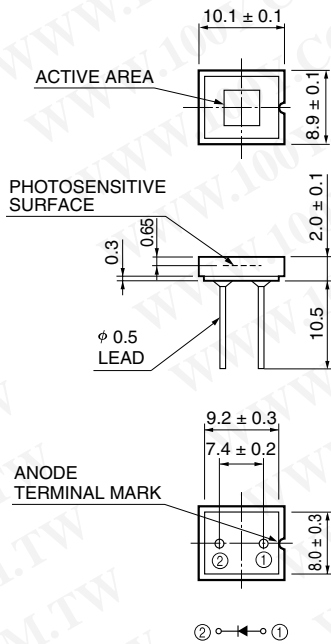
KGPD A0014EA

④ G1118



KGPD A002EA

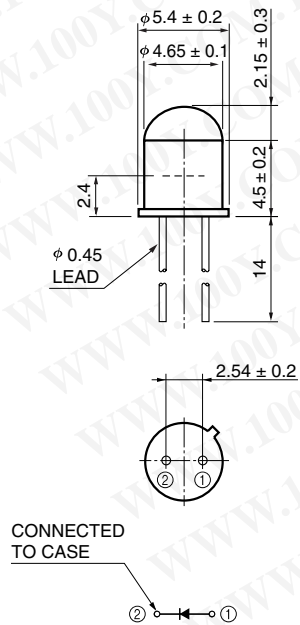
⑤ G1120



Coating resin may extend a maximum of 0.1 mm beyond the upper surface of the package.

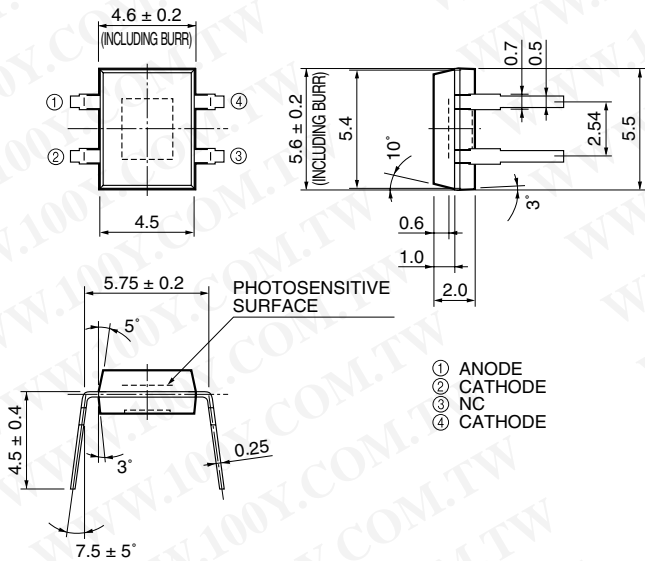
KGPDA0008EA

⑥ G3067



KGPDA0009EA

⑦ G2711-01



KGPDA0003EA

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HAMAMATSU PHOTONICS K.K., Solid State Division

1126-1 Ichino-cho, Hamamatsu City, 435-8558 Japan, Telephone: (81) 053-434-3311, Fax: (81) 053-434-5184, <http://www.hamamatsu.com>

U.S.A.: Hamamatsu Corporation: 360 Foothill Road, P.O.Box 6910, Bridgewater, N.J. 08807-0910, U.S.A., Telephone: (1) 908-231-0960, Fax: (1) 908-231-1218

Germany: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (49) 08152-3750, Fax: (49) 08152-2658

France: Hamamatsu Photonics France S.A.R.L.: 8, Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: 33-(1) 69 53 71 00, Fax: 33-(1) 69 53 71 10

United Kingdom: Hamamatsu Photonics UK Limited: 2 Howard Court, 10 Tewin Road, Welwyn Garden City, Hertfordshire AL7 1BW, United Kingdom, Telephone: (44) 1707-294888, Fax: (44) 1707-325777

North Europe: Hamamatsu Photonics Norden AB: Smidsvågen 12, SE-171 41 Solna, Sweden, Telephone: (46) 8-509-031-00, Fax: (46) 8-509-031-01

Italy: Hamamatsu Photonics Italia S.R.L.: Strada della Moia, 1/E, 20020 Arese, (Milano), Italy, Telephone: (39) 02-935-81-733, Fax: (39) 02-935-81-741