ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

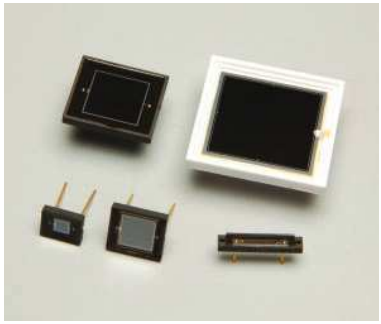
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Hamamatsu S1337-66BR* at our website: *Click HERE*

HAMAMATSU
PHOTON IS OUR BUSINESS

Si photodiodes

S1337 series



For UV to IR, precision photometry

Features

- High UV sensitivity: QE 75% (λ=200 nm)
- Low capacitance

Applications

- Analytical equipment
- Optical measurement equipment

Structure / Absolute maximum ratings

Type No.	Window material	Package (mm)	Photosensitive area size (mm)	Effective photosensitive area (mm^2)	Absolute maximum ratings		
					Reverse voltage V_R max (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
S1337-16BQ	Quartz	2.7 × 15	1.1 × 5.9	5.9	5	-20 to +60	-20 to +80
S1337-16BR	Resin potting						
S1337-33BQ	Quartz	6 × 7.6	2.4 × 2.4	5.7			
S1337-33BR	Resin potting						
S1337-66BQ	Quartz	8.9 × 10.1	5.8 × 5.8	33			
S1337-66BR	Resin potting						
S1337-1010BQ	Quartz	15 × 16.5	10 × 10	100			
S1337-1010BR	Resin potting						
S1337-21	Unsealed	25.5 × 25.5	18 × 18	324		0 to +60	0 to +80

Note: Exceeding the absolute maximum ratings even momentarily may cause a drop in product quality. Always be sure to use the product within the absolute maximum ratings.

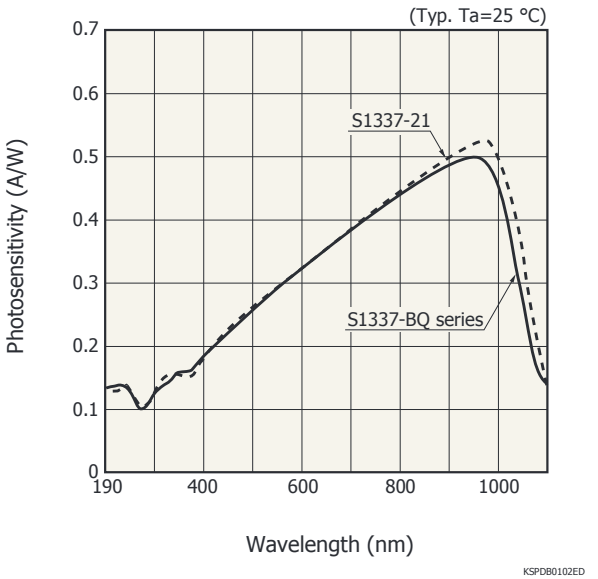
Electrical and optical characteristics (Typ. Ta=25 °C, unless otherwise noted)

Type No.	Spectral response range λ (nm)	Peak sensitivity wavelength λp (nm)	Photosensitivity S (A/W)					Short circuit current Isc 100 lx		Dark current I_D V_R=10 mV Max. (pA)	Temp. coefficient of I_D T_{CID} (times/°C)	Rise time tr V_R=0 V R_L=1 kΩ (μs)	Terminal capacitance Ct V_R=0 V f=10 kHz (pF)	Shunt resistance Rsh V_R=10 mV		Noise equivalent power NEP (W/Hz$^{1/2}$)
			λp	200 nm		He-Ne laser 633 nm	GaAs LED 930 nm	Min. (μA)	Typ. (μA)					Min. (GΩ)	Typ. (GΩ)	
				Min.	Typ.											
S1337-16BQ	190 to 1100	960	0.5	0.10	0.12	0.33	0.5	4.0	5.3	50	1.15	0.2	65	0.2	0.6	1.0×10^{-14}
S1337-16BR	340 to 1100		0.62	-	-	0.4	0.6	4.4	6.2							8.4×10^{-15}
S1337-33BQ	190 to 1100		0.5	0.10	0.12	0.33	0.5	4.0	5.0	30		0.2	65	0.3	1	8.1×10^{-15}
S1337-33BR	340 to 1100		0.62	-	-	0.4	0.6	4.4	6.2							6.5×10^{-15}
S1337-66BQ	190 to 1100		0.5	0.10	0.12	0.33	0.5	20	27	100		1	380	0.1	0.4	1.3×10^{-14}
S1337-66BR	340 to 1100		0.62	-	-	0.4	0.6	22	33							1.0×10^{-14}
S1337-1010BQ	190 to 1100		0.5	0.10	0.12	0.33	0.5	65	78	200		3	1100	0.05	0.2	1.8×10^{-14}
S1337-1010BR	340 to 1100		0.62	-	-	0.4	0.6	70	95							1.5×10^{-14}
S1337-21	190 to 1100		0.52	0.10	0.13	0.34	0.51	200	250	500		8	4000	0.02	0.1	2.5×10^{-14}

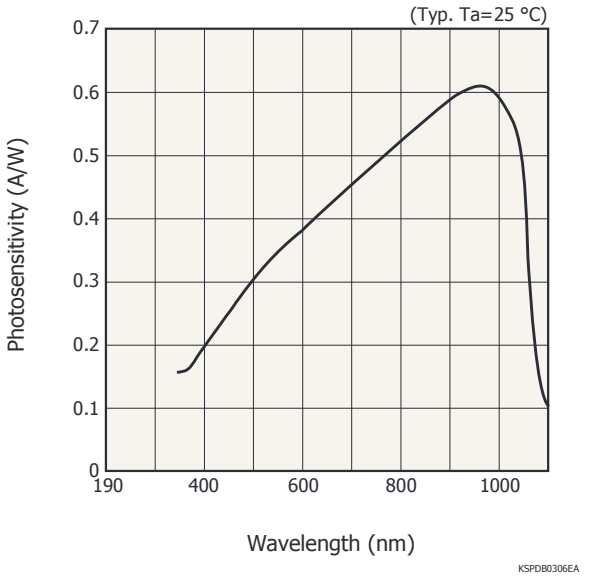
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Spectral response

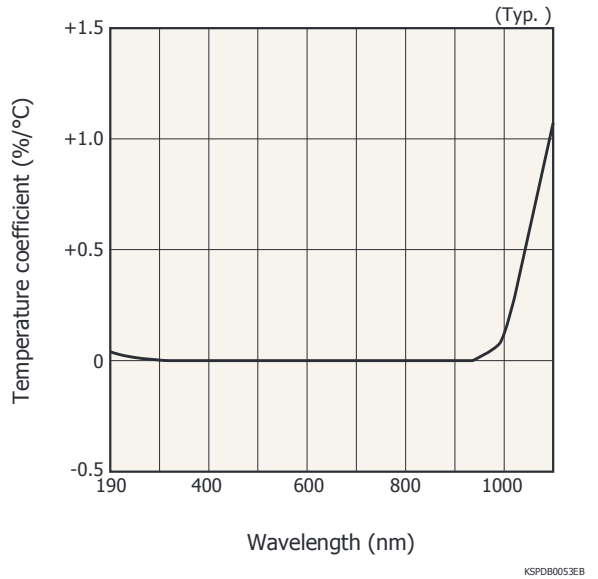
S1337BQ series, S1337-21



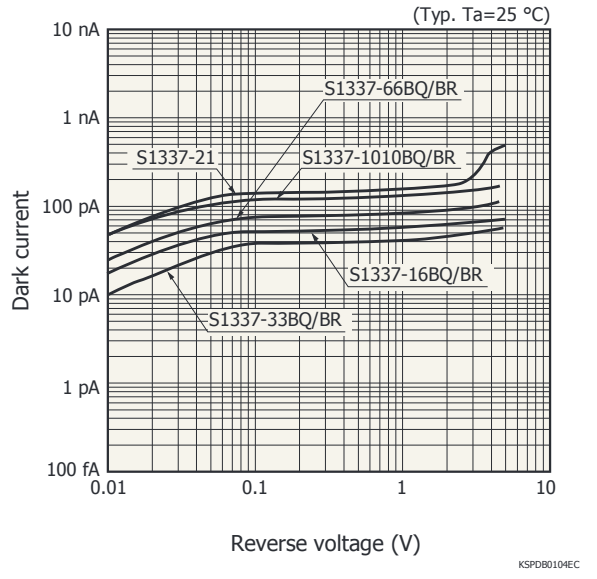
S1337-BR series



Photosensitivity temperature characteristics



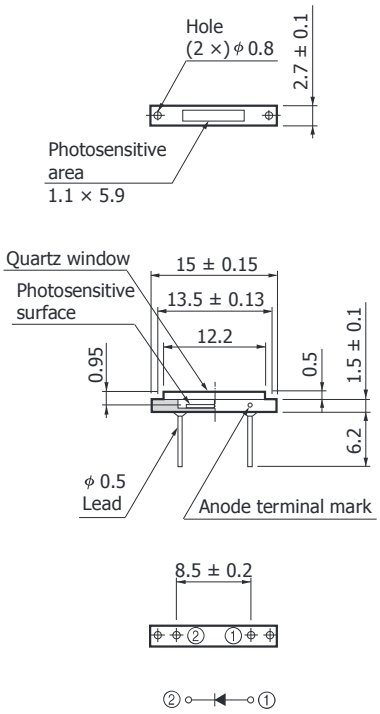
Dark current vs. reverse voltage



Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

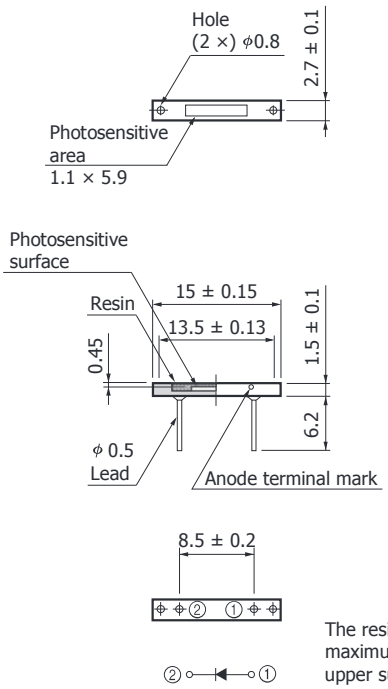
Dimensional outlines (unit: mm)

S1337-16BQ



KSPDA0105EB

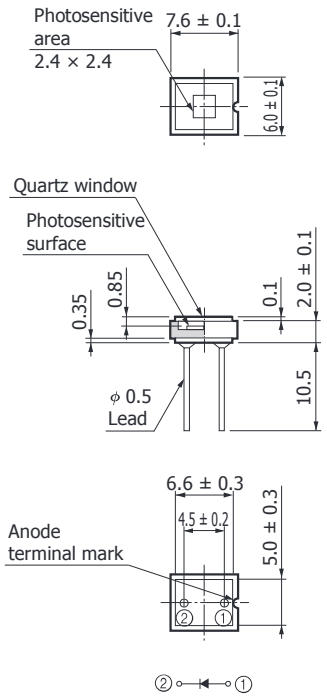
S1337-16BR



The resin potting may extend a maximum of 0.1 mm above the upper surface of the package.

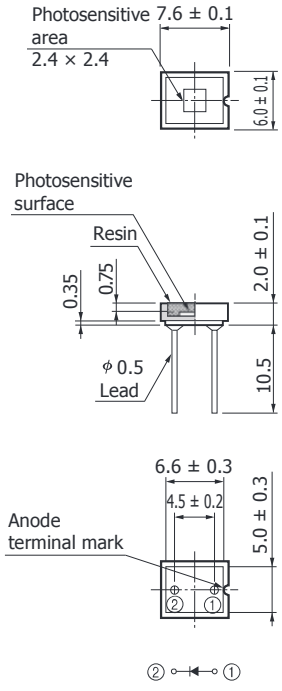
KSPDA0106EB

S1337-33BQ



KSPDA0107EB

S1337-33BR

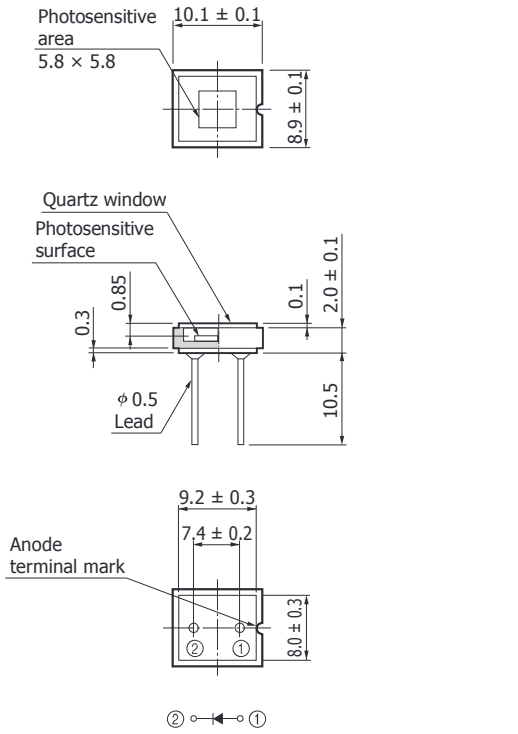


The resin potting may extend a maximum of 0.1 mm above the upper surface of the package.

KSPDA0108EB

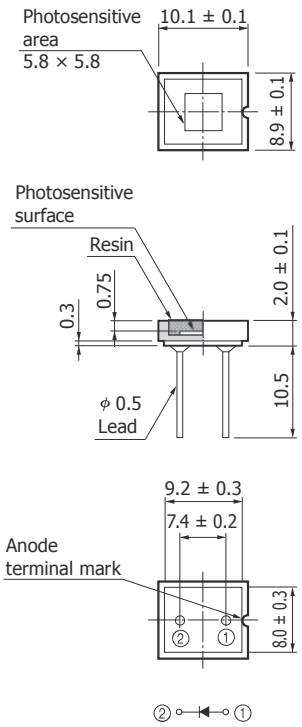
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

S1337-66BQ



KSPDA0109EB

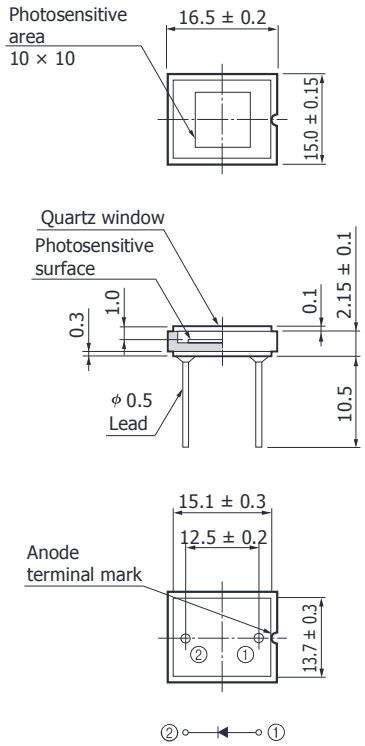
S1337-66BR



The resin potting may extend a maximum of 0.1 mm above the upper surface of the package.

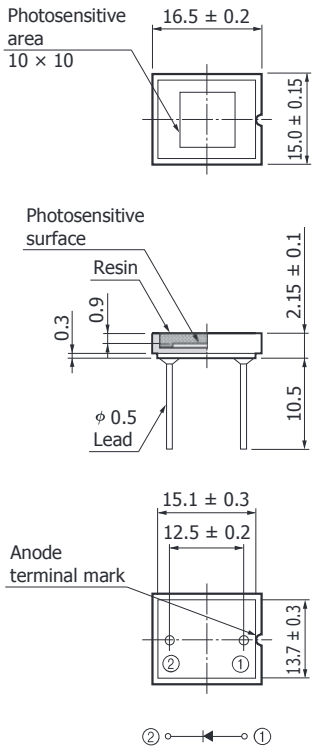
KSPDA0110EB

S1337-1010BQ



KSPDA0111EB

S1337-1010BR

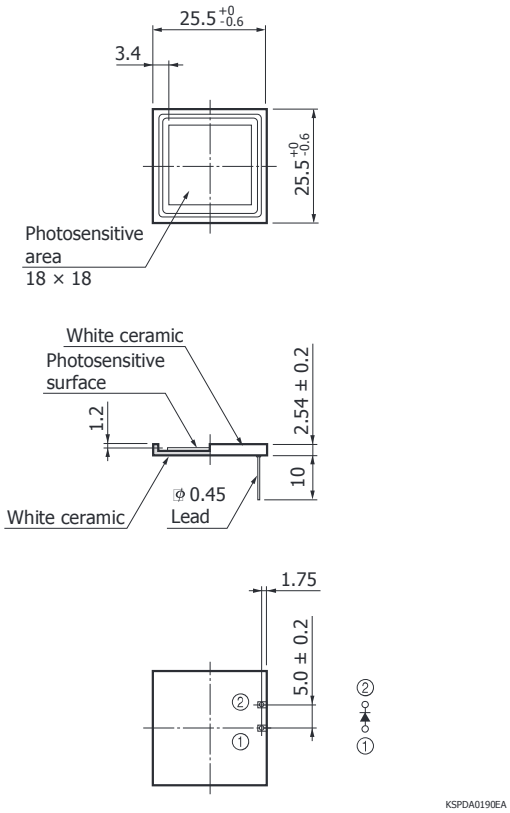


The resin potting may extend a maximum of 0.1 mm above the upper surface of the package.

KSPDA0112EB

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

S1337-21



Information described in this material is current as of November, 2012.
Product specifications are subject to change without prior notice due to improvements or other reasons. Before assembly into final products, please contact us for the delivery specification sheet to check the latest information.

The product warranty is valid for one year after delivery and is limited to product repair or replacement for defects discovered and reported to us within that one year period. However, even if within the warranty period we accept absolutely no liability for any loss caused by natural disasters or improper product use.
Copying or reprinting the contents described in this material in whole or in part is prohibited without our prior permission.

HAMAMATSU www.hamamatsu.com

HAMAMATSU PHOTONICS K.K., Solid State Division
1126-1 Ichino-cho, Higashi-ku, Hamamatsu City, 435-8558 Japan, Telephone: (81) 53-434-3311, Fax: (81) 53-434-5184
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) 8152-375-0, Fax: (49) 8152-265-8
France: Hamamatsu Photonics France S.A.R.L.: 19, 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: Thorshamnsgatan 35 16440 Kista, Sweden, Telephone: (46) 8-509-031-00, Fax: (46) 8-509-031-01
Italy: Hamamatsu Photonics Italia S.R.L.: Strada della Moia, 1 int. 6, 20020 Arese, (Milano), Italy, Telephone: (39) 02-935-81-733, Fax: (39) 02-935-81-741
China: Hamamatsu Photonics (China) Co., Ltd.: 1201 Tower B, Jiaming Center, No.27 Dongsanhuan Beilu, Chaoyang District, Beijing 100020, China, Telephone: (86) 10-6586-6006, Fax: (86) 10-6586-2866

Cat. No. KSPD1032E06 Nov. 2012 DN

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP