

S1226 series

**For UV to visible, precision photometry;
suppressed near IR sensitivity**

Features

- Suppressed near IR sensitivity
- High sensitivity in UV region (quartz glass type)
- Low dark current
- High reliability

Applications

- Analytical equipment
- Optical measurement equipment, etc.

Structure / Absolute maximum ratings

Type no.	Dimensional outline/ Window material*	Package	Photosensitive area size (mm)	Absolute maximum ratings			
				Reverse voltage V _R max (V)	Operating temperature T _{opr} (°C)	Storage temperature T _{stg} (°C)	
S1226-18BQ	(1)/Q	TO-18	1.1 × 1.1	5	-20 to +60	-55 to +80	
S1226-18BK	(2)/K				-40 to +100	-55 to +125	
S1226-5BQ	(3)/Q	TO-5	2.4 × 2.4		-20 to +60	-55 to +80	
S1226-5BK	(4)/K				-40 to +100	-55 to +125	
S1226-44BQ	(5)/Q				3.6 × 3.6	-20 to +60	-55 to +80
S1226-44BK	(6)/K					-40 to +100	-55 to +125
S1226-8BQ	(7)/Q	TO-8	5.8 × 5.8		-20 to +60	-55 to +80	
S1226-8BK	(8)/K				-40 to +100	-55 to +125	

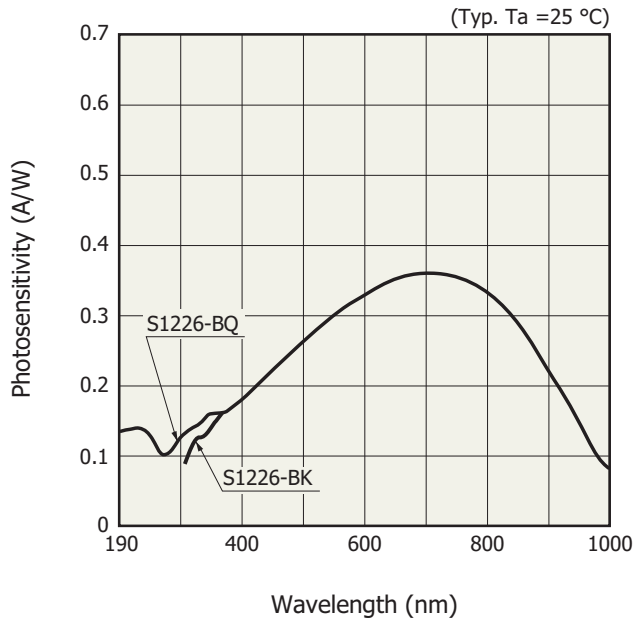
Note: Exceeding the absolute maximum ratings even momentarily may cause a drop in product quality. Always be sure to use the product within the absolute maximum ratings.

* Window material, K=borosilicate glass, Q=quartz glass

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

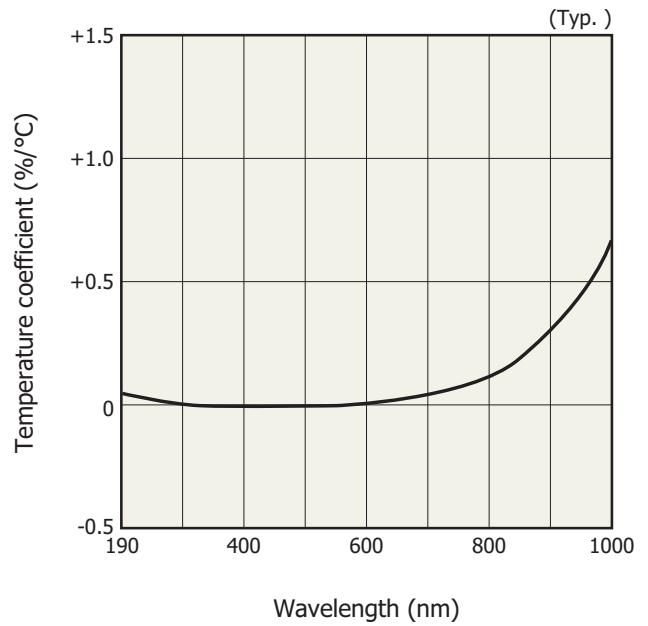
Type no.	Spectral response range λ (nm)	Peak sensitivity wavelength λ _p (nm)	Photosensitivity S (A/W)			Short circuit current I _{sc} 100 lx	Dark current I _D V _R =10 mV max.	Temp. coefficient of I _D T _{CD}	Rise time t _r V _R =0 V R _L =1 kΩ	Terminal capacitance C _t V _R =0 V f=10 kHz	Shunt resistance R _{sh} V _R =10 mV		Noise equivalent power NEP												
			λ _p	200 nm							He-Ne laser 633 nm	Min. (μA)		Typ. (μA)	Min. (GΩ)	Typ. (GΩ)									
				Min.	Typ.																				
S1226-18BQ	190 to 1000	720	0.36	0.10	0.12	0.34	0.5	0.66	2	1.12	0.15	35	5	50	1.6 × 10 ⁻¹⁵										
S1226-18BK	320 to 1000															-	-								
S1226-5BQ	190 to 1000															0.10	0.12	2.2	2.9	5	0.5	160	2	20	2.5 × 10 ⁻¹⁵
S1226-5BK	320 to 1000															-	-								
S1226-44BQ	190 to 1000															0.10	0.12	4.4	5.9	10	1	500	1	10	3.6 × 10 ⁻¹⁵
S1226-44BK	320 to 1000															-	-								
S1226-8BQ	190 to 1000															0.10	0.12	12	16	20	2	1200	0.5	5	5.0 × 10 ⁻¹⁵
S1226-8BK	320 to 1000															-	-								

Spectral response



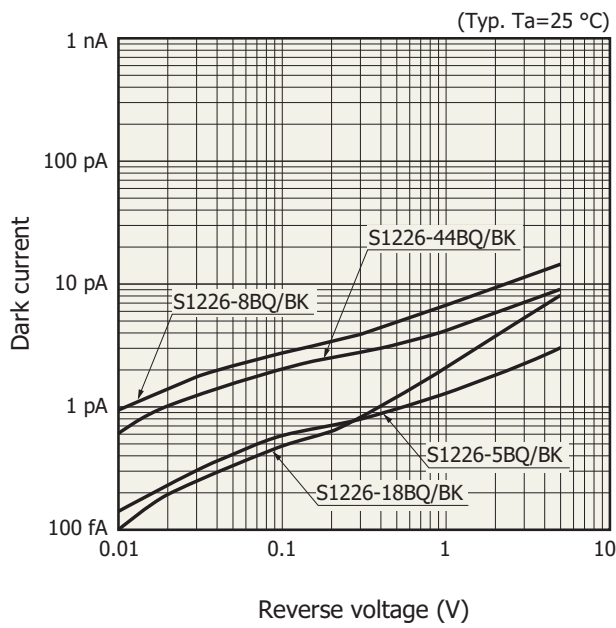
KSPDB0106EA

Photosensitivity temperature characteristic



KSPDB0030EA

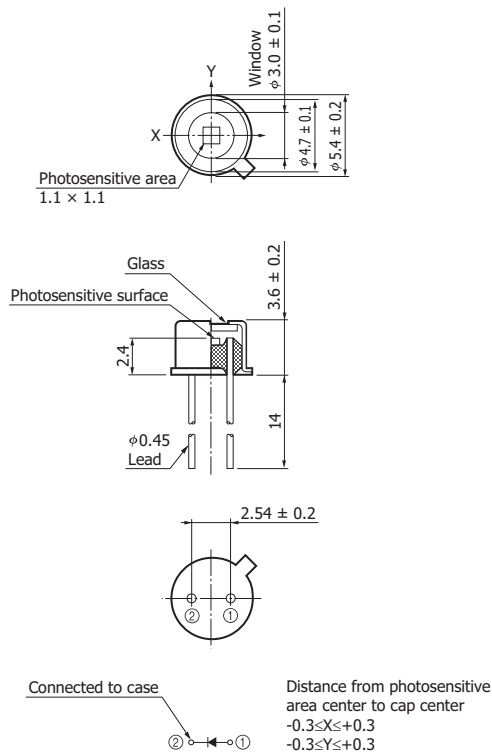
Dark current vs. reverse voltage



KSPDB0108EC

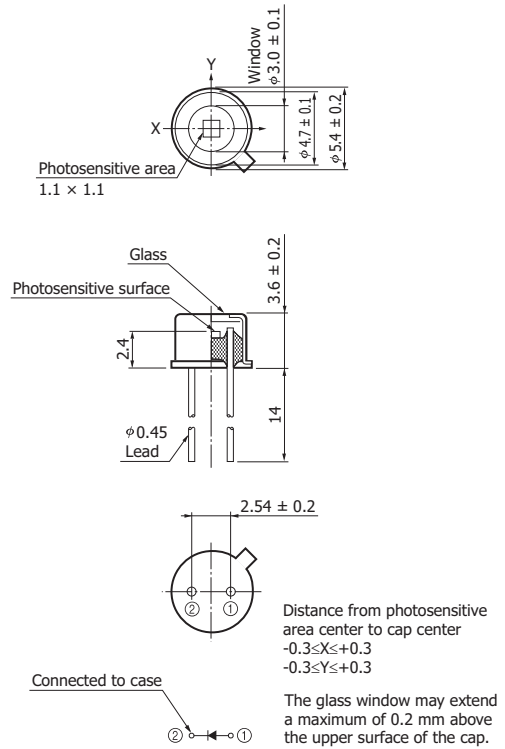
Dimensional outlines (unit: mm)

(1) S1226-18BQ



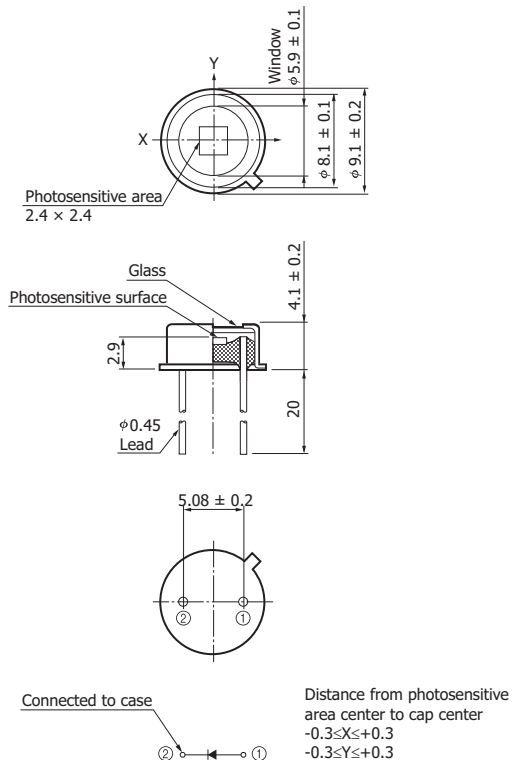
KSPDA0201EB

(2) S1226-18BK



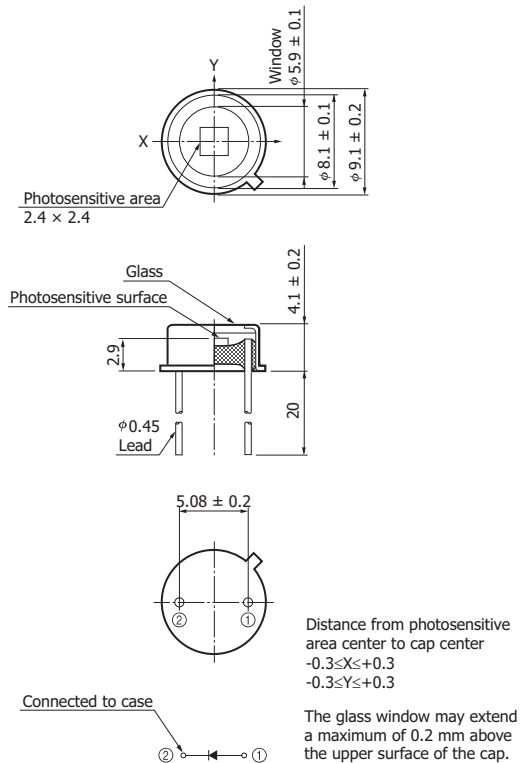
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(3) S1226-5BQ



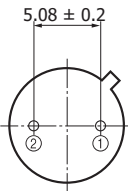
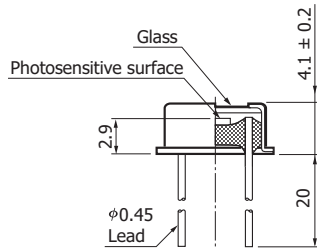
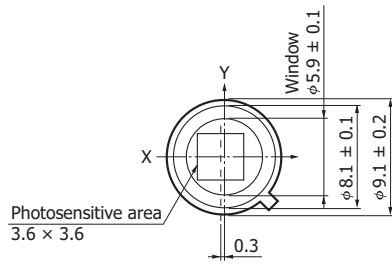
KSPDA0202EB

(4) S1226-5BK



KSPDA0114ED

(5) S1226-44BQ



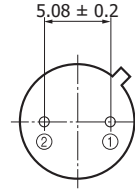
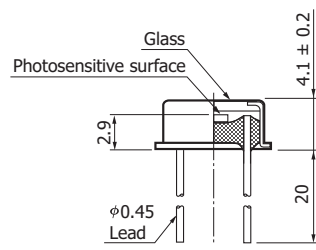
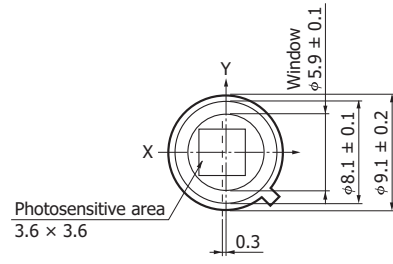
Connected to case



Distance from photosensitive area center to cap center
 $-0.6 \leq X \leq 0$
 $-0.3 \leq Y \leq +0.3$

KSPDA0203EB

(6) S1226-44BK



Connected to case

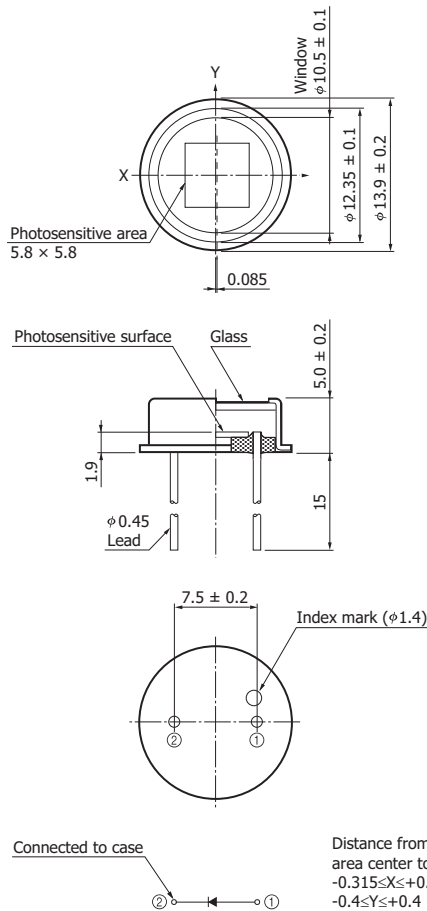


Distance from photosensitive area center to cap center
 $-0.6 \leq X \leq 0$
 $-0.3 \leq Y \leq +0.3$

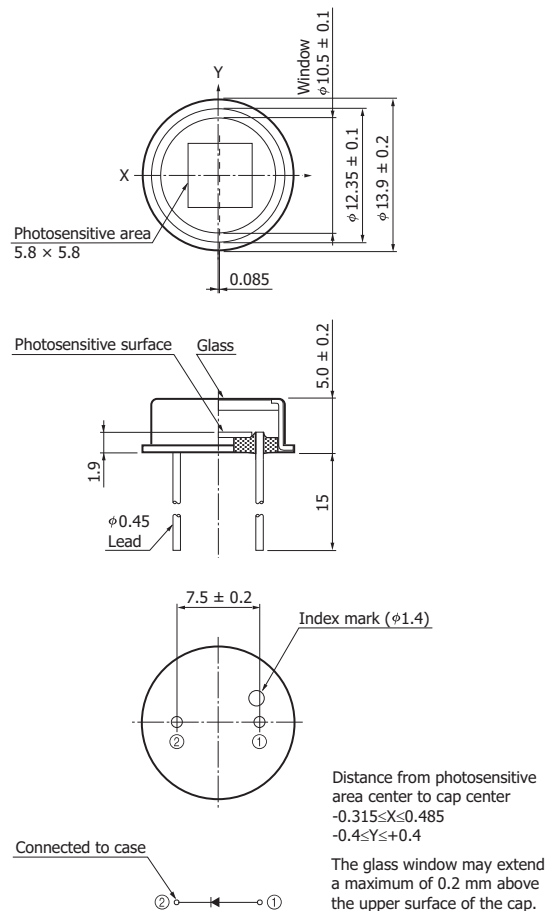
The glass window may extend a maximum of 0.2 mm above the upper surface of the cap.

KSPDA0195EC

(7) S1226-8BQ



(8) S1226-8BK



KSPDA0204EB

KSPDA0115ED

Information described in this material is current as of November, 2013.

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Type numbers of products listed in the delivery specification sheets or supplied as samples may have a suffix "(X)" which means preliminary specifications or a suffix "(Z)" which means developmental specifications.

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