

Specialty Designed Photodiodes, Position Sensitive Detectors

Specially Designed Photodiodes

Hamamatsu currently produces a variety of special devices such as photodiode/op-amp detectors, TE-cooled photodiodes, and linear and mosaic arrays.

If your application calls for something special, please contact us with your specific requirements.

Type No.	Sensitive Area (mm)	No. of Elements	Spectral Response (nm)	Package
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Multi-Element Types

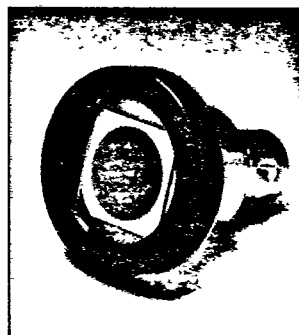
S994-22	1.15 x 1.15	2	400~1060	Metal case (TO-5)
S1446	φ2.54	2	190~1000	Metal case
S2841				
S994-13	1.45 x 1.45	4	400~1060	Metal case (TO-5)
S1557	φ1 quadrant	4	400~1060	Metal case (TO-18)
S1557-01	φ1 quadrant	4	400~1060	Ceramic case (6 x 6 mm)
S1651	0.295 x 0.595	4	400~1060	Metal case (TO-18)
S1651-01	0.295 x 0.595	4	400~1060	Ceramic case (6 x 6 mm)
S1671	1.7 x 2.8	4	400~1060	Metal case (TO-8)
S2856	4 segmented	4	400~1060	Epoxy mold, 8-pin DIP
S2802	6 segmented	6	400~1060	Epoxy mold, 8-pin DIP

Photodiode/Op-amp Detectors

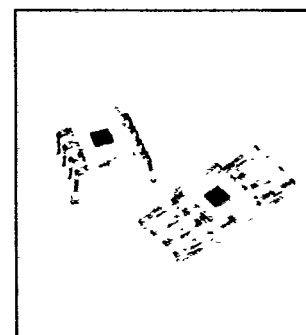
S1406-03	2.4 x 2.4	1	190~1100	10-pin TO-5 (Input window size: 3 mmφ)
S1406-04	2.4 x 2.4	1	300~1100	
S1406-05	2.4 x 2.4	1	190~1000	
S1406-06	2.4 x 2.4	1	300~1000	

Photodiodes with BNC Connectors

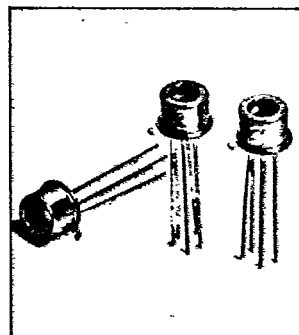
S2281	φ11.3	1	190~1100	Metal case
S2281-01	φ11.3	1	190~1000	(with BNC connector)



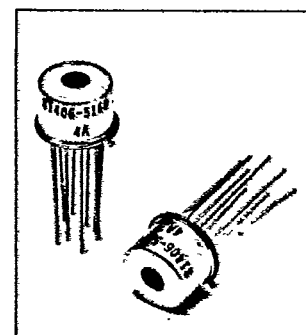
▲ S2281 (with BNC connector)



▲ Photodiodes for optical disc



▲ S1557 (Quadrant)



▲ S1406 Series (with op-amp)

Position-Sensitive Detectors (PSD)

PSD provides continuous position data of a light spot travelling over its surface. In comparison to discrete element detectors, such as MOS and CCD detectors, PSD exhibits high position resolution, fast response speed, and simple operating circuits.

One-Dimensional Types

Type No.	Sensitive Area	Package
★ S3271	1 x 2 mm	4-pin epoxy mold
★ S3272	1 x 2.5 mm	
★ S3273	1 x 3 mm	
★ S3274	1 x 3.5 mm	
S1543	1 x 3 mm	TO-5 Metal case
S1771	1 x 3 mm	Ceramic case
★ S3260	1 x 6 mm	18-pin DIP
★ S3261	1 x 12 mm	18-pin DIP
S1662	13 x 13 mm	Ceramic case
S1352	2.5 x 34 mm	Ceramic case
★ S3270	1 x 37 mm	Ceramic case

Two-Dimensional Types

Type No.	Sensitive Area	Package
S1300 (Duo-lateral type)	13 x 13 mm	Ceramic case (28 mmφ)
S1743 (Tetra-lateral type)	4.1 x 4.1 mm	TO-8 Metal case
S1200 (Tetra-lateral type)	13 x 13 mm	Ceramic case (28 mmφ)
S1869 (Tetra-lateral type)	27 x 27 mm	Ceramic case (52 mmφ)
S2044 (Pin-cushion type)	4.7 x 4.7 mm	TO-8 Metal case
S1880 (Pin-cushion type)	12 x 12 mm	Ceramic case (28 mmφ)
S1881 (Pin-cushion type)	22 x 22 mm	Ceramic case (52 mmφ)



Spectral response range is either 300 ~ 1100 nm or 700 ~ 1100 nm.