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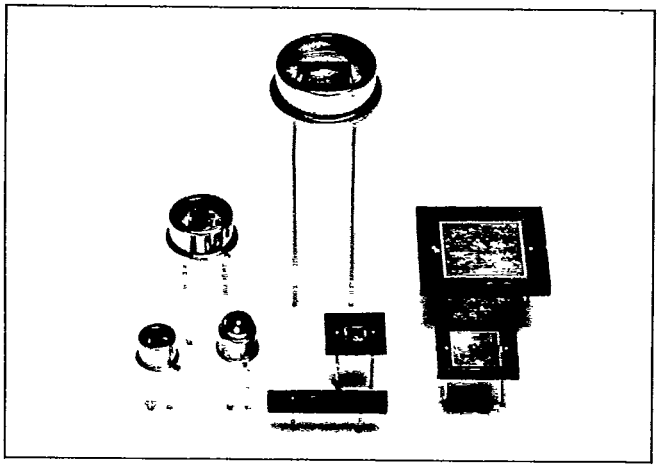
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Silicon Photodiodes (Visible Light to IR, for Precision Photometry)

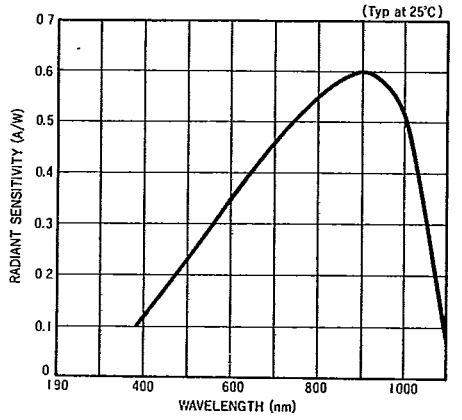
Type No. Ⓐ	Out-line Ⓑ	Package (mm)	Photosensitive Surface: Size (mm)	Photosensitive Surface: Effective Area (mm^2)	Spectral Response: Range (nm)	Spectral Response: Peak Wave-length (nm)	Characteristics (25°C): Radian Sensitivity (A/W): Peak Wave-length	560nm GaP LED	633nm He-Ne Laser	930nm GaAs LED	Short Circuit Current I_{sh}, 100 lux: Min. (μA)	Typ. (μA)
S2386 Series (Metal Case): S874 Series replacement												
S2386-18K	❶	TO-18	1.1 x 1.1	1.2	400~1100	900±50	0.6	0.3	0.4	0.6	1	1.2
-18L	❷										3.2	4.0
-5K	❻	TO-5	2.4 x 2.4	5.7							4.4	5.8
-44K			3.7 x 3.7	13.7							9.6	12
-45K			3.9 x 4.6	17.9							12	15
-8K	❿	TO-8	5.8 x 5.8	33							26	33
S2387 Series (Ceramic Case): S875 Series replacement												
S2387-16R	⓯	2.7 x 15	1.1 x 5.9	5.8	400~1100	900±50	0.6	0.3	0.4	0.6	4.4	5.5
-33R	⓱	6 x 7.6	2.4 x 2.4	5.7							4.4	5.5
-66R	⓳	8.9 x 10.1	5.8 x 5.8	33							24	30
-1010R	㉑	15 x 16.5	10 x 10	100							68	85



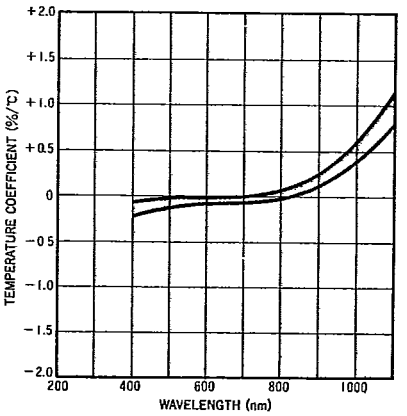
Ⓐ Window Materials are
K: Borosilicate glass
L: Lens type borosilicate glass
R: Resin coating

Ⓑ See pages 34 to 37.

● **Spectral Response**

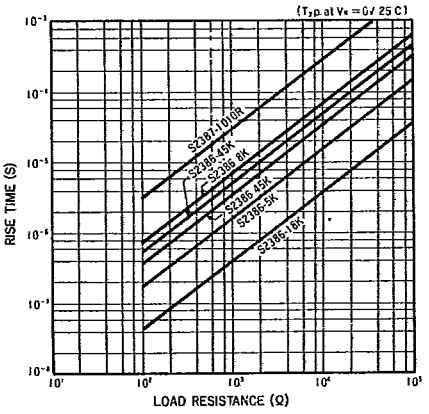


● **Temperature Characteristic of I_{sh}**

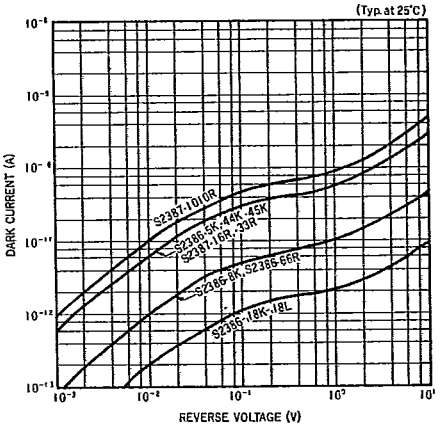


Characteristics (at 25°C)									Absolute Maximum Ratings			Type No.
Dark Current I_d V_R = 10mV		Temperature Dependence of Dark Current	Shunt Resistance, R_{sh} V_R = 10mV		Junction Capacitance C_j V_R = 0V	Rise Time t_r V_R = 0V R_L = 1kΩ	NEP	D*	Reverse Voltage	Temperature Range		
Typ. (pA)	Max. (pA)	Typ. (Times/°C)	Min. (GΩ)	Typ. (GΩ)	Typ. (pF)	Typ. (μs)	Typ. (W/Hz$^{1/2}$)	Typ. (cm·Hz$^{1/2}$/W)	V_{Rmax} (V)	Operating (°C)	Storage (°C)	
0.2	2	1.12	5	50	180	0.4	1×10^{-15}	2×10^{14}	30	−20~+80	−55~+100	S2386-18K
												-18L
0.5	5		2	20	700	1.5	1.5×10^{-15}					-5K
0.7	20		0.5	15	1700	3.6	1.8×10^{-15}					-44K
0.6	30		0.3	15	2200	4.7						-45K
1	50		0.2	10	3200	7	2×10^{-15}					-8K
0.5	5	1.12	2	20	700	1.5	1.5×10^{-15}	2×10^{14}	30	−20~+60	−20~+80	S2387-16R
												-33R
1	50		0.2	10	3200	7	1×10^{-15}					-66R
10	200		0.05	1	13000	30	7×10^{-15}					-1010R

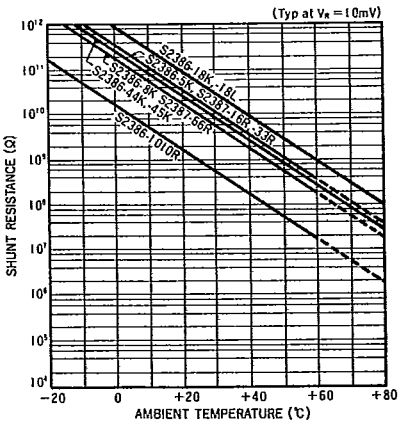
- **Response Time vs. Load Resistance**



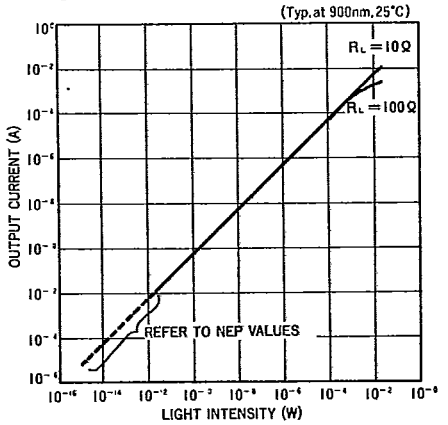
- **Dark Current vs. Reverse Voltage**



- **Shunt Resistance vs. Temperature**



- **Linearity**

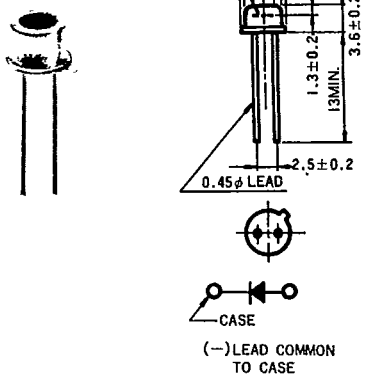


Dimensional Outlines

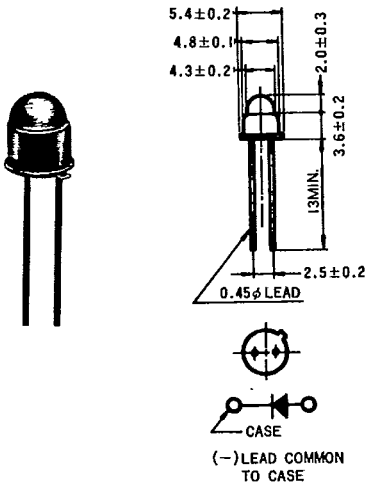
T-91-20

Unit: mm

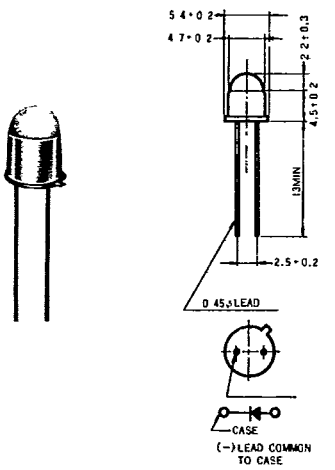
❶ S1226-18BQ etc.



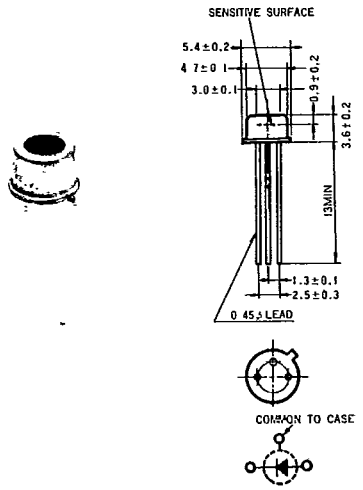
❷ S2386-18L etc.



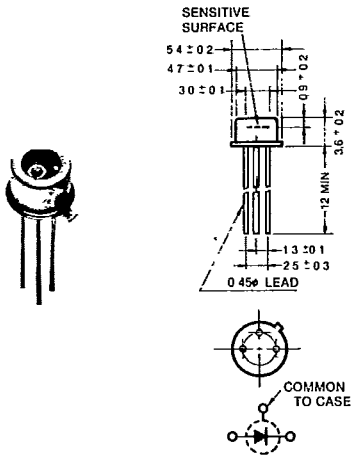
❸ S1190-01 etc.



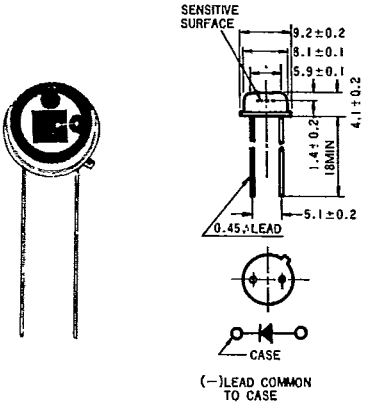
❹ S1188-02, S2216-01, etc.



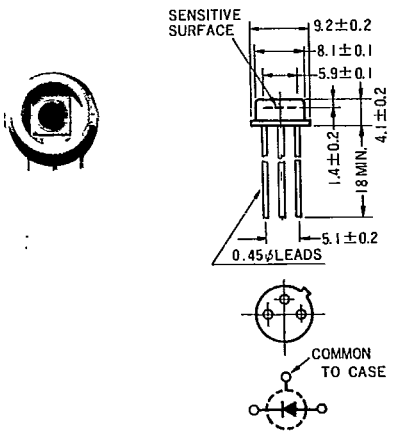
❺ S2381, S2382, S2383



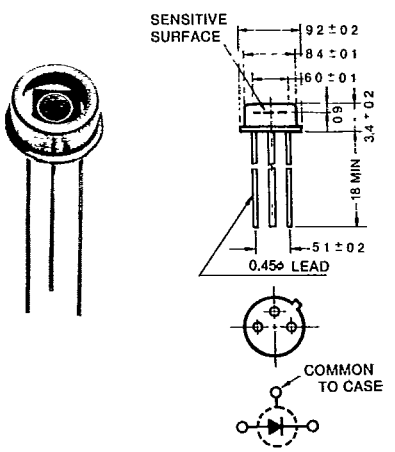
❻ S1226-5BQ etc.



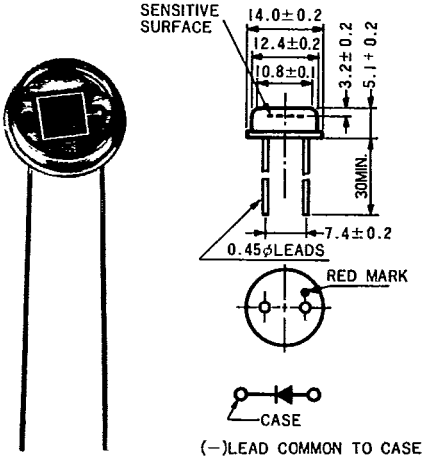
❼ S1721



❽ S2384

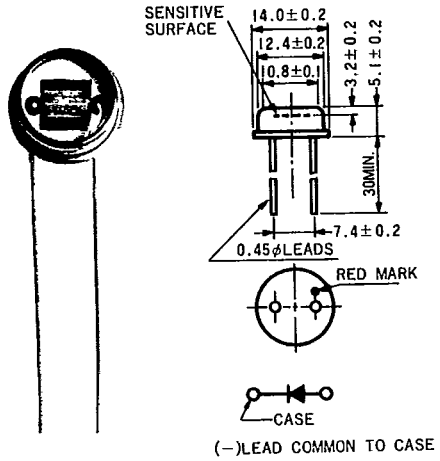


❾ S1226-8BQ etc.

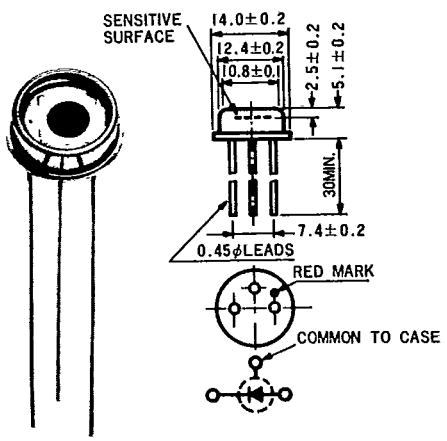


Unit: mm

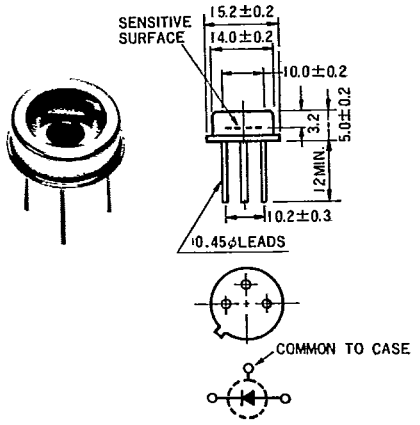
⑩ G1117, G1737



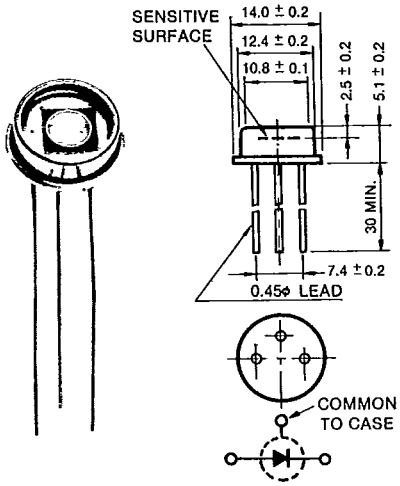
⑪ S1722, S1863, etc.



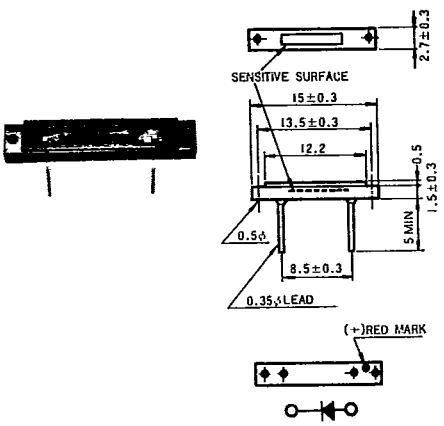
⑫ S1863-01



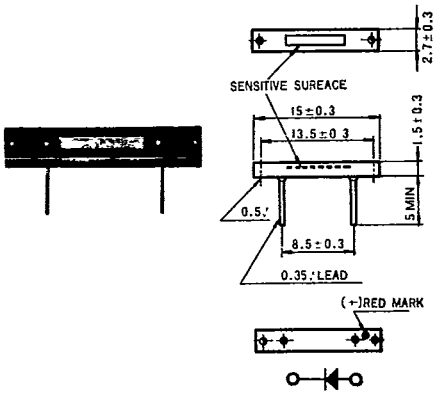
⑬ S2385



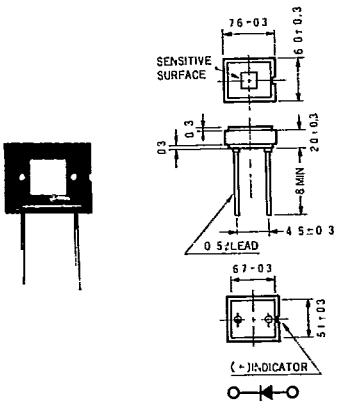
⑭ S1227-16BQ etc.



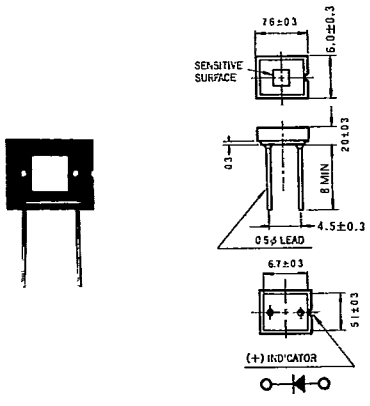
⑮ S1227-16BR etc.



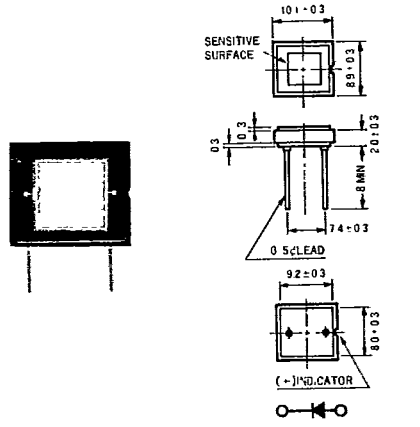
⑯ S1227-33BQ etc.



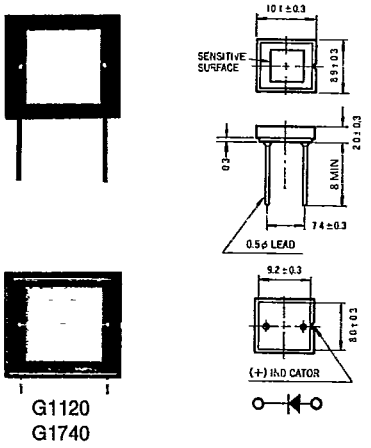
⑰ S1227-33BR etc.



⑱ S1227-66BQ etc.

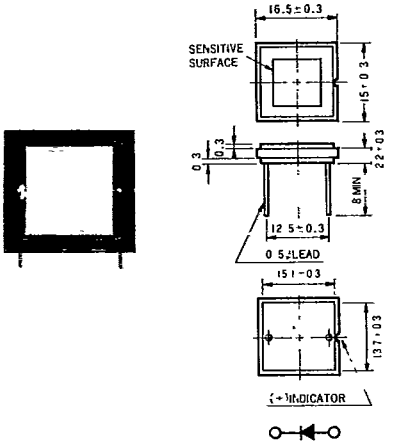


⑲ S1227-66BR etc.

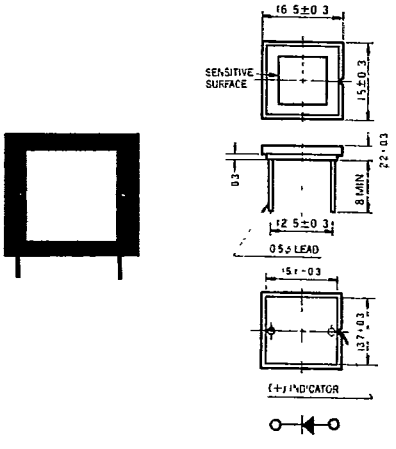


G1120
G1740

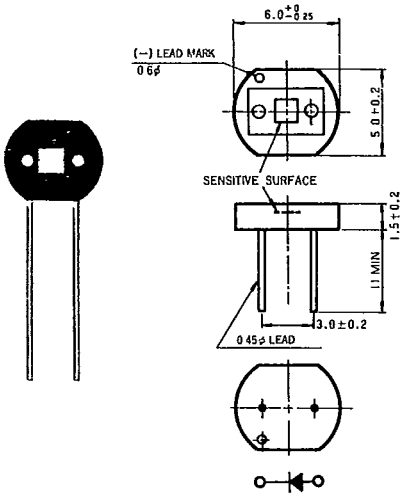
⑳ S1227-1010BQ etc.



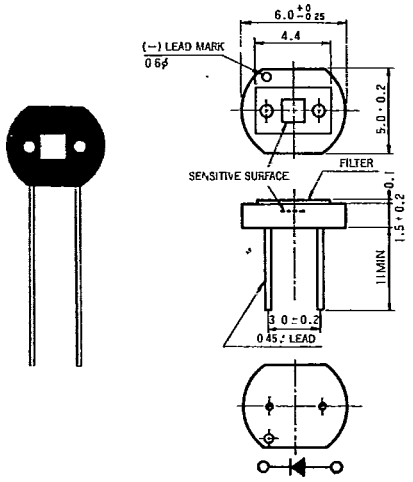
㉑ S1227-1010BR etc.



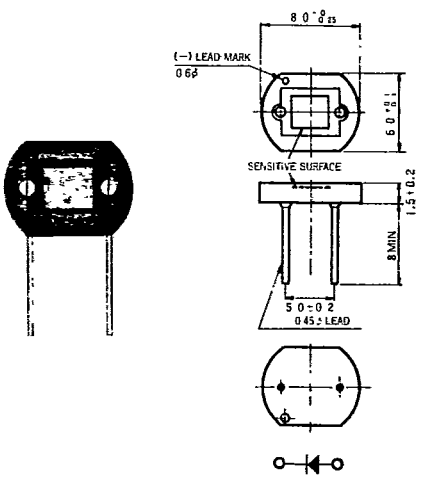
㉒ S1087-01, G1118, G1738



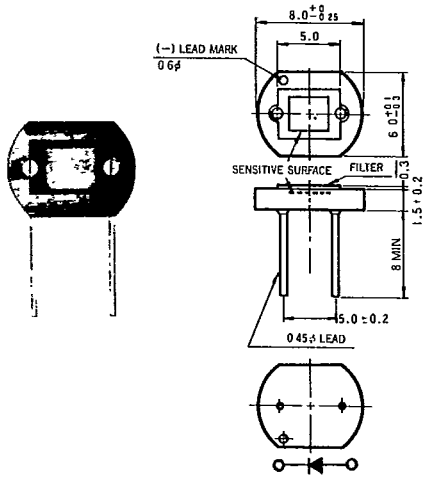
㉓ S1087, S1087-03



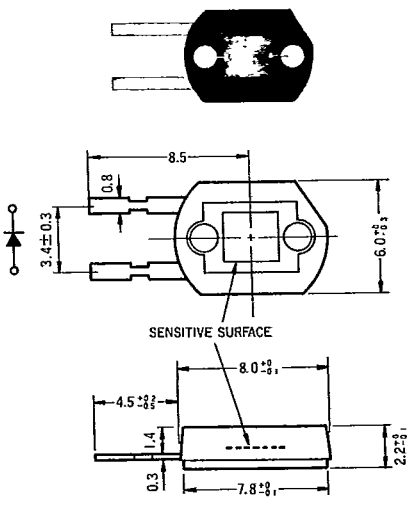
㉔ S1133-01, S1133-11, etc.



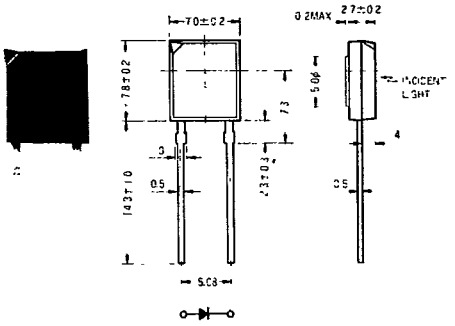
㉕ S1133, S1133-03, etc.



㉖ S1787 Series



㉗ S2506, S2506-01



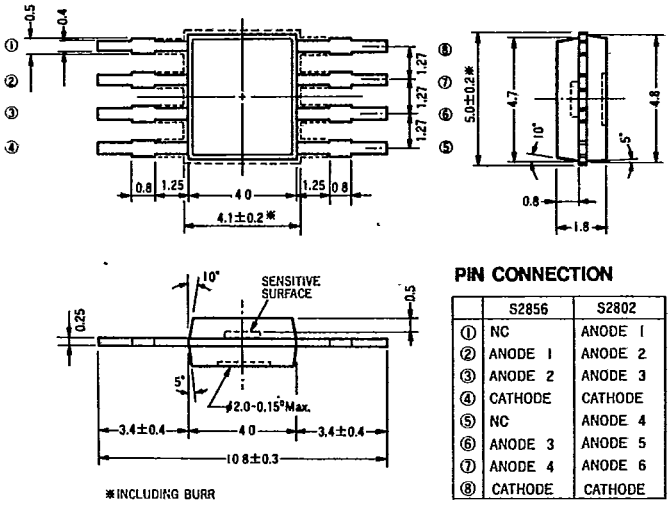
Unit: mm

㉘ S2856, S2802

㉙ S2164, S2164-01

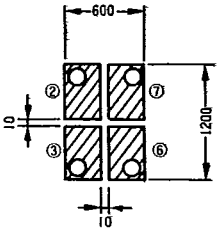
S2802



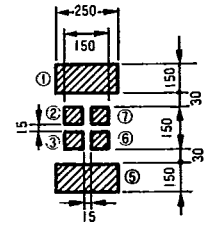


Details of Sensitive Area
(Unit: μm)

S2856



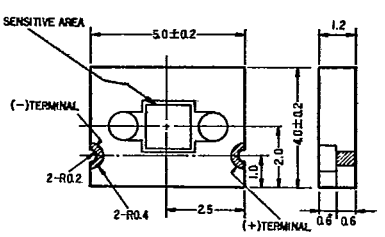
S2802

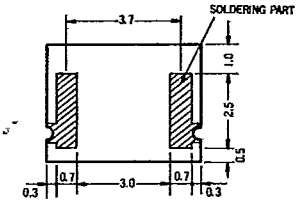


PIN CONNECTION

	S2856	S2802
①	NC	ANODE 1
②	ANODE 1	ANODE 2
③	ANODE 2	ANODE 3
④	CATHODE	CATHODE
⑤	NC	ANODE 4
⑥	ANODE 3	ANODE 5
⑦	ANODE 4	ANODE 6
⑧	CATHODE	CATHODE



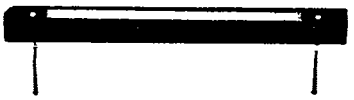


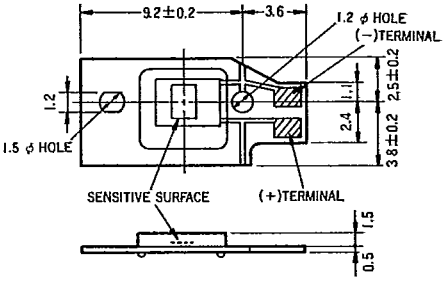


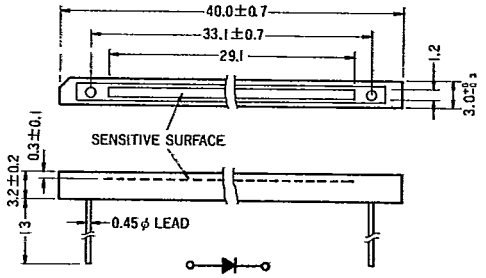
㉚ S2357

㉛ S2551









* The spacings of the leads in the figures are indicated as center-to-center dimensions. The photograph shows a typical type.

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